# DIVISION OF GRADUATE EDUCATION AND SPECIAL PROGRAMS

SPRING SESSION 1975
WORCESTER STATE COLLEGE
JANUARY 27–MAY 23

# Table of Contents


| | |
|---|---|
| Introduction | 2 |
| Registration Policy | 4 |
| Tuition & Fees | 5 |
| Tuition Refunds | 6 |
| Credit Information | 7 |
| Withdrawal Policy | 8 |
| Comprehensive Examinations | 8 |
| Library Cards | 8 |
| Parking Regulations | 8 |
| Advising | 8 |
| Veterans | 9 |
| Faculty | 10 |
| Course Listings | 14 |
| Course Descriptions | 25 |

# INTRODUCTION

## The Division of Graduate Education and Special Programs

The Division of Graduate Education and Special Programs is the official designation (effective September 1, 1974) for the branch of the College which serves all part-time students, whether graduate or undergraduate, whether matriculated or non-matriculated.

Overall responsibility for the Division rests with the Dean of Special Programs. A Coordinator of Graduate Education and a Coordinator of Continuing Education have also been appointed to assist students in planning their programs of study. Advisors will be assigned to all matriculated students, that is, those who have been accepted as degree candidates, both graduate and undergraduate.

The Part-Time Undergraduate Program will enable students to major in Sociology, Psychology or Administrative Studies (Business Administration) and English. The Graduate Program now offers the Master of Education degree with concentrations in nineteen areas.* In addition, the Division of Graduate Education and Special Programs will offer mini-courses, conferences, workshops, institutes and community service courses.

To apply for admission to graduate programs, contact the Office of Graduate Education and Special Programs at Worcester State College, 799-2405. In the case of part-time undergraduate students, apply for admission directly to the Office of Undergraduate Admissions, 754-6861, Ext. 206.

Please note that the Division reserves the right to cancel any course which does not have a minimum enrollment of 20 students. It will be useful to remember that courses carrying undergraduate credit only are numbered in the 7-series; courses carrying both graduate and undergraduate credit are numbered in the 8-series; and courses carrying graduate credit only are numbered in the 9-series.

*Areas of Concentration for M.Ed. Candidates

Audio-Visual Media
Biology
Chemistry
Community Education
Computer Science
Counselor Education
Early Childhood Education
Elementary Education
English
History
Language Arts
Leadership in Ed. Admin.
Learning Disabilities
Library Science - Media
Mathematics
Reading Specialist
Secondary Education
Spanish
Urban Education

# REGISTRATION POLICY

## REGISTRATION IN PERSON:

Matriculating students in Master's or Bachelor's Degree Program may register from December 2, 1974 through December 5, 1974 between the hours of 9:00 a.m. to 5:00 p.m. and 6:00 to 9:30 p.m., and December 6, 1974 from 9:00 a.m. to 4:30 p.m.

General Registration will be accepted from December 9, 1974 – December 20, 1974 and January 6, 1975 – January 27, 1975, Monday through Thursday between the hours of 9:00 a.m. to 9:00 p.m. Fridays from 9:00 to 4:30 p.m.

## REGISTRATION BY MAIL:

Registration by mail will begin December 9, 1974. Students should complete the registration form accurately. They should determine the amount of payment by using information provided in the Bulletin. The completed registration form, check, and self-addressed envelope should be mailed prior to January 10, 1975 to:

Division of Graduate and Continuing Education
Worcester State College
Worcester, MA 01602

# TUITION

Per Semester Hour

## Graduate and Continuing Education Students

| | |
|---|---|
| Massachusetts Resident | $22.00 |
| Non-Resident of Massachusetts | $29.00 |
| Audit (Resident and Non-Resident) | $15.00 |
| Part-time Matriculated, Undergraduate Students, Massachusetts Resident | $10.00 |
| Non-Resident of Massachusetts | $10.00 |
| Audit (Resident and Non-Resident) | $15.00 |

# FEES

| | |
|---|---|
| Registration Fee Per Semester (Fee non-refundable) | $10.00 |
| Library Fee Per Semester (Fee non-refundable) | $10.00 |
| Late Registration Fee | $ 2.00 |
| Course Change Fee | $ 2.00 |
| Parking Fee (Academic Year) | $ 2.00 |
| Graduate Fee (Persons receiving degrees) | $ 5.00 |

Under No Circumstances Will Any of the Registration and Library Fees be Returned. All Tuition and Fees are Due the Day of Registration and Are Payable by Check or Money Order.

## TUITION REFUNDS

Students who withdraw from courses within the established time period will be granted refunds as follows:

| | |
|---|---|
| Withdrawn prior to the second class meeting | 100% refund |
| Withdrawn prior to the third class meeting | 80% refund |
| Withdrawn prio to the fourth class meeting | 60% refund |
| Withdrawn after the fourth class meeting | No refund |

No refund is permitted if the course status is changed from credit to audit. A student who is entitled to a refund must obtain a form for each course for which a refund is due and file it with the Offices of the Program of Continuing Education or Graduate Education. Forms are available at either office located in the Science Building, Room 112.

Telephone and other unofficial notices will not be accepted as notification of withdrawal. **The Day and Time That the Notice is Received Will Be the Official Date of Withdrawal.**

## CREDIT INFORMATION

Regulations and requirements for degree study may be obtained at the Offices of Continuing Education and Graduate Education, Science Building, Room 112, Worcester State College. It is urgently recommended that the guidance and advice of the Directors and your faculty advisor in your field of concentration, wherein you must have five approved courses, be sought and faithfully followed in the planning of a program of study. For teachers in service, a maximum of six semester hours per semester may be credited toward a degree. The Graduate Record Examination required of all graduate degree students will be conducted at Worcester State College. Registration through Educational Testing Service, Princeton, New Jersey, should be completed three weeks prior to the test date. Tests Dates: October 26, 1974, December 14, 1974, January 18, 1975, February 22, 1975, April 26, 1975 and June 21, 1975.

Only the Aptitude part of the GRE Test is required of degree candidates. The test must be taken during the first year of graduate study.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater, (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art, subject to advance approval by Worcester State College.

## WITHDRAWAL

Ceasing to attend a class does not constitute official withdrawal from a course. If notice is not given to the Offices of Continuing Education and Graduate Education a grade of failure will be recorded.

## COMPREHENSIVE EXAMINATION

The Graduate Comprehensive Examination will be conducted on May 2, 1975 at 4:00 p.m. All Degree candidates must file the "Intention to Graduate Form" with the Director in Room S-112, early in the final semester of graduate study. This will be the last time the Comprehensive Examination will be offered in the required areas of Advanced Philosophy and Advanced Psychology. Effective July 1, 1975 all students must pass a comprehensive examination in their field of concentration. Arrangements for these examinations will be made individually with the student's advisor.

## LIBRARY CARDS

If you do not have a library card, please register for one at the Learning Resources Center.

## ADVISING

Advising assistance in selection and registering in all courses is available in Room S-112, Science Buidling, Worcester State College Graduate Office, Telephone: 799-2405, 754-6861.

## PARKING REGULATIONS

Students must park in the student parking areas behind the Science Building or to the side of the Gymnasium Building.

## VETERANS

**WORLD WAR II AND KOREAN** – Any resident of Massachusetts who has served in any branch of the armed forces for at least ninety days, one of which must have been served either between September 16, 1940 and December 31, 1946, or between June 25, 1950 and January 31, 1955 and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photostatic copy) of a certificate of satisfactory service in the case of an officer together with proof of residence in advance of the opening date of the class meeting. Veterans in this category must show proof of their ineligibility for education benefits under P.L. 351, Chapter 34.

**VIETNAM AND COLD WAR VETERANS** – Veterans in this category who are ineligible for educational benefits under P.L. 351, Chapter 34 and who are registered in a Bona Fide Bachelor or Master's degree program may be exempt from tuition payment under the following conditions:

1. That they show proof of not being eligible for Federal Education Benefits.
2. That they still have eligibility under Massachusetts General Laws.

It is very unlikely that any Vietnam or Cold War Veteran would be eligible for tuition free courses since the passing of the recent legislation of Chapter 514 on tuition free veteran courses in the Program of Continuing Education. **For Registration Purposes All Veterans Who Are Not Exempt From Paying Tuition Must Register on Non-Veteran Registration Cards.**

# FACULTY

GEORGE P. MELICAN, *B.S., Ed.M., C.A.G.S., Ed.D.,* Dean of Special Programs

HELEN E. PROSTAK, *B.S.*
Administrative Assistant

DAVID H. QUIST, *A.B., M.A., Ed.D.*
Coordinator of Graduate Education

GERTRUDE R. LEEDS, *A.B., M.A.,*
Coordinator of Continuing Education

JOHN F. EAGER, *B.S., Ed.M.,*
Veteran's Adviser

FRANCISCO ALCALA, B.A., M.A., Ph.D.
DAVID ALEXANDER, B.A., M.A.T., Ph.D.
JUNE ALLARD, A.B., M.A., Ph.D.
WILLIAM BELANGER, B.S., Ed.M., M.N.S.
SARI BITTICKS, B.A.
SANDOR BLUM, B.A., M.S., D.S.W.
FRANCIS L. BROOKER, A.B., M.A.
NEIL BROPHY, B.A., M.A.
JOSEFINA S. BUNUAN, B.A., Ed.M., Dip in Ld., Ed.D.
KATHLEEN M. BURNS, B.A., M.A.
WILLIAM BYERS, A.B., B.D.
VITO D. CAMPO, B.S.Ed.; Ed.M., M.A.
ANTHONY CAPOZZA, B.S., Ed.M.
DORIS N. CARTER, B.S., M.A., Ed.D.
JACQUELINE G. CASALE, B.A., M.A.
ROBERT J. CASHMAN, B.A., M.Ed., M.A.
JENNIE M. CELONA, B.A., M.A.
LOUIS J. CELONA, B.M., M.M., M.A.
HAROLD L. CHAPMAN, B.S., Ed.M., M.S., Ph.D.
ANNA COHEN, C.C.C.S.
JOHN CORCORAN, B.A., M.A.
MAJORIE F. COSTELLO, B.S., Ed.M., M.A., Ed.D.
ALDONA L. DALY, R.N., B.S., M.A., C.A.G.S.
SAMUEL C. DAVENPORT, B.A.. M.B.A.

STANLEY DAVIS, B.S.E.E., M.B.A.
BARBARA DESROSIERS, B.A., Ed.M.
DANIEL DICK, B.A., M.F.A., M.L.S.
JOHN DOWLING, B.S., Ed.M.
KATHLEEN C. DOWNEY, B.S., M.A.
PAUL J. EDMUNDS, A.B., M.A., Ph.D.
ROBERT P. ELLIS, A.B., M.A.
LEONARD F. FARREY, B.S., Ed.M.
GEORGE GARRELTS, B.A., M.A.
KENNETH GIBBS, Jr., A.B., M.F.A., Ph.D.
RICHARD J. GILMARTIN, A.B., M.A.
MERRILL H. GOLDWYN, A.B., A.M., Ph.D
LILLIAN R. GOODMAN, R.N., B.S., M.S. Ed.D.
RONALD L. GOODRICH, B.S., B.A., M.B.A.
ROBERT W. GOSS, B.S. Ed.M., M.A., Ed.D.
TERRY GRAHAM, A.B., M.S., Ph.D.
LEON S. GRAUBARD, A.B., A.M.
RUTH GRIFFITHS, B.S., M.A., Ed.D.
BERNARD J. GUARINI, A.B., M.A.
ROSE GUERIN, A.B., M.A.
RONALD HARRIS, A.B., M.A., Ph.D.
ROBERT J. HARTWIG, A.B., M.A., Ph.D.
JOHN C. HAYES, A.B., Ed.M., M.A.
EDWIN R. HEDMAN, A.B., A.M., Ph.D.
C. GARTH HENGEN, B.S., M.A., Ph.D.
W. MACK HILL, B.S., M.S., Ph.D.
DAVID W. HILTON, B.S. Ed., Ed.M., Ph.D.
THOMAS J. HOURIHAN, B.S., B.A., M.B.A.
RICHARD G. HUNT, B.S., M.S.
ROGER J. ISABELLE, B.A., M.A.
MARION J. JENNINGS, B.S. Ed., Ed.M., Ph.D.
THOMAS D. JOHNSON, A.B., M.A.
JOLINE N. JONES, B.A., Ph.D.
ROBERT T. JONES, B.S., M.A., Ph.D.
RICHARD JURALEWICZ, B.M.E., M.S., Ph.D.
ELIZABETH KALLGREN, B.S., M.A.
DONALD D. KANE, B.S., M.A.
JOSEPH KEEFE, B.S., M.A., Ed.D.
GEORGE T. KELLEY, A.B., M.A., Ph.D.

BAHEEJ KHLEIF, M.S., Ph.D.
GEORGE A. KNADLER, B.S., M.S., M.A., Ed.D.
MARLIN KREIDER, A.B., M.S., Ph.D.
HAROLD LANGLOIS, B.A., M.A., Ph.D.
GERTRUDE R. LEEDS, A.B., M.A.
JOSEPH C. LONERGAN, B.S., Ed.M., C.A.G.S.
MARY L. LOVERING, R.N., B.S., M.S.
CAROL E. LYSAGHT, B.A., Ed.M., Ed.D.
ROBERT F. MCGRAW, B.S., M.A.T.
JOHN C. MCLAUGHLIN, Jr., B . S., Ed.M.
YVONNE L. MARTEL, A.B., M.A.
HAROLD MARTELL, B.S., Ed.M.
FELIX E. MASTERSON, A.B., M.A., Dip Prof Ed., Ph.D.
WILLIAM K. MASTERSON, A.B., M.A.
GORDON S. MATHESON, A.B., M.A.
MELVIN MERKEN, B.S., M.A., Ed.D.
MICHEL MERLE, B.A., M.A.
CAROL MIELO, B.A., M.A.
A. GIBBS MITCHELL, B.S., M.A.
GARRETT MITCHELL, B.S., M.A.
JOHN R. MOCKLER, B.S., M.A.
MICHAEL E. MULCAHY, B.S.Ed., Ed.M.
HOWARD MUNSON, B.S., Ed.M., D.D.
GEORGE NAJEMY, A.B., M.A., J.D.
JOHN M. NASH, B.A., M.A., Ed.D.
FRANCIS J. O'CONNOR, A.B., M.A.
RICHARD O'CONNOR, B.S., M.A.
J. FRANCIS O'MARA, A.B., Ed.M., M.A., Dip Prof Ed., Ph.D.
WILLIAM F. O'NEIL, B.S.Ed., Ed.M., Dip Prof Ed., Ed.D.
CHAD OSBORNE, B.A., M.A.
A. BARBARA PILON, B.A., Ed.M., Ph.D.
FRANK C. PIZZIFERRI, B.S., M.S., Ed.D.
JOHN P. PLOSKI, B.S., M.S.
JOSEPHINE T. POLITO, B.S., M.S.
SPENCER R. POTTER, B.S., Ed.M.
VINCENT E. POWERS, A.B., M.A.
THEODORE PROVO, B.S., Ed.M., Ph.D.
CATHERINE I. QUINT, B.S. Ed., Ed.M., Ed.D.

DAVID H. QUIST, A.B., M.A., Ed.D.
CHARLES RADLOW, B.A.
DONALD READ, B.A., M.S., Ed.D.
M. MARGARET READ, B.S., M.S.
ROBERT W. REDDING, B.S., M.S., Ph.D.
NOEL J. REYBURN, B.S., M.A., Ed.D.
GERALD ROBBINS, B.A., M.A.
JEFFREY L. ROBERTS, A.B., M.A., Ph.D.
THOMAS ROBERTS, A.B., M.S., Ph.D.
ROBERT SAHAGIAN, B.M., M.M.
BASU SARKAR, B.S.Ed., I.T.I., M.B.A.
EUGENE SCANLON, A.B., Ed.M.
JOSEPH P. SCANNELL, B.S., Ed.M.
DION SCHAFF, B.A., M.A., Ph.D
COURTNEY SCHLOSSER, A.B., Ed.M., Ed.D
JOHN E. SCOLA, A.B., L.L.B., J.D.
DAVID A. SEIFFER, A.B., M.A.
HELENA SEMERJIAN, B.S., Ed.M.
ANN MARIE SHEA, A.B., M.A.
EMMETT A. SHEA, B.S., Ed.M., M.A.
KATHERINE M. SHEA, A.B., Ed.M., M.A.
JOSEPH A. SHEA, B.S. , Ed.M., Ph.D.
RICHARD H. SINE, B.A., Ed.M.
JANE SPIVAK, B.S., Ed.M., Ph.D.
PHILIP STEINKRAUSS, B.A., M.A., Ph.D.
G. FLINT TAYLOR, A.B., Ed.M., C.A.G.S., Ph.D.
ANTHONY W. THURSTON, A.B., M.A.T.
MARY TITUS, B.A., M.A.T.
RICHARD L. TOWERS, B.A., Ed.M., Ph.D.
JOSEPH L. TRACY, A.B., M.S.
DONALD F. TRAUB, A.B., M.A., A.M., Ph.D.
STEPHEN F. TRIMBY, A.B., A.M.
GUS TURBERVILLE, A.B., M.A., Ph.D.
JERALD L. WEAVER, B.B.A., L.L.B.
CHENG YUAN, A.B., M.A., M.A.
MANUEL ZAX, A.B., Ed.M., Ed.D.
MATTHEW ZELMAN, B.A., M.A.

# COURSE LISTINGS

The first line of each course listing below indicates the course number and course title. The second line indicates the name of the instructor, the day the course is offered (day code), time (time code), and room number (Institute for Community Service is located at 251 Salisbury Street, Worcester, Mass.).

DAY CODE: M (Monday); T (Tuesday); W (Wednesday);TH (Thursday); S (Saturday).

TIME CODE: A (4:30 – 7:00 p.m.); B (7:00 – 9:30 p.m.); C (5:00 – 8:00 p.m.); D (9:00 – 11:30 a.m.).

## ART

| | | | | |
|---|---|---|---|---|
| AR8-105 | MIXED MEDIA | | | |
| | D. Carter | T | B | A400 |
| AR8-110 | FIGURE DRAWING | | | |
| | M. Merle | W | B | G23 |
| AR8-115 | BASIC WOOD DESIGN | | | |
| | D. Dick | M | B | G23 |
| AR8-120 | CREATIVE PAINTING I | | | |
| | J. Casale | TH | A | A 105B |

## BIOLOGY

| | | | | |
|---|---|---|---|---|
| BI8-150 | MYCOLOGY | | | |
| | T. Thurston | TH | A | S128 |
| | Prerequisites: See course description | | | |
| BI8-250 | HUMAN ANATOMY AND PHYSIOLOGY | | | |
| | T. Graham | T,TH | B | S132 |
| | Prerequisites: See course description | | | |
| BI9-100 | ENVIRONMENTAL PHYSIOLOGY | | | |
| | M. Kreider | T | A | S126 |
| | Prerequisites: See course description | | | |
| BI9-200 | IMMUNOCHEMISTRY | | | |
| | T. Roberts | M,W | B | S126 |
| | Prerequisites: See course description | | | |
| BI9-300 | SPECIAL PROBLEMS IN BIOLOGY | | | |
| | T. Roberts | T | A | S132 |
| | Prerequisites: See course description | | | |

## BUSINESS ADMINISTRATION

| | | | | |
|---|---|---|---|---|
| AD7-110 | INTRODUCTORY ACCOUNTING I | | | |
| | R. Goodrich | W | A | S117B |
| AD7-111 | INTRODUCTORY ACCOUNTING II | | | |
| | R. Goodrich | W | B | S117A |
| | Prerequisites: See course description | | | |
| AD7-200 | INTERNSHIP SEMINAR | | | |
| | R. Juralewicz | T | A | S117B |

AD7-301 THEORY AND CASES IN ADMINISTRATION II
S. Davis TH B S117B
Prerequisites: See course description

AD7-306 PRINCIPLES OF PERSONAL MANAGEMENT
D. Kane TH A S117A
Prerequisites: See course description

AD7-315 INFORMATION SYSTEMS
L. Graubard M B S223
Prerequisites: See course description

AD7-325 PLANNING, FORECASTING AND CONTROL
S. Davenport TH B S223
Prerequisites: See course description

AD8-405 MARKETING I
J. Weaver M A S117A

AD8-408 FUNDAMENTALS OF PRODUCTION MANAGEMENT II
B. Sarkar T B S117B
Prerequisites: See course description

AD8-463 SELECTED TOPICS IN PUBLIC ADMINISTRATION
TBA W B S223

AD8-473 SELECTED TOPICS IN BUSINESS ADMINISTRATION
T. Hourihan M A S309
Prerequisites: See course description

## CHEMISTRY

CH8-155 CURRENT TRENDS IN CHEMISTRY AND NUTRITION
M. Merken W B S301

CH8-250 PHYSICAL CHEMISTRY: A LIFE SCIENCE APPROACH
R. Harris TH A S316
Prerequisites: See course description

## COMMUNICATION DISORDERS

CD8-100 INTRODUCTION TO SIGN LANGUAGE
S. Bitticks TH B S132

CD8-110 ADVANCED SIGN LANGUAGE
S. Bitticks W B S205

CD8-200 LANGUAGE THERAPY FOR DEAF AND HARD OF HEARING
R. Guerin W B S125

CD8-210 PRINCIPLES OF TEACHING THE HANDICAPPED
C. Lysaght M A S128

CD8-220 ANATOMY AND PHYSIOLOGY OF THE SPEECH MECHANISM
J. McLaughlin W B S309
Prerequisites: See course description

CD8-230 NEUROLOGICAL DISORDERS OF SPEECH
A. Cohen W A S128
Prerequisites: See course description

CD8-240 INTRODUCTION TO HEARING SCIENCE
C. Hengen M A S310
Prerequisites: See course description

CD8-250 LANGUAGE DISORDERS
M. Read T A S125
Prerequisites: See course description

## COMPUTER SCIENCE

| | | | | |
|---|---|---|---|---|
| CS8-100 | INTRODUCTION TO COMPUTER SCIENCE | | | |
| | TBA | M | A | LRC117 |
| CS8-200 | COMPUTER PROGRAMMING WITH FORTRANIV | | | |
| | TBA | T | B | LRC304 |
| CS8-250 | COMPUTER PROGRAMMING WITH COBAL | | | |
| | M. Mulcahy | W | A | LRC306 |
| CS8-275 | ADVANCED COBAL AND RPG | | | |
| | H. Martell | TH | A | LRC304 |
| CS9-100 | NUMERICAL METHODS USING COMPUTERS | | | |
| | R. Redding | W | B | LRC114 |

## ECONOMICS

| | | | | |
|---|---|---|---|---|
| EC8-110 | PRINCIPLES OF ECONOMICS II | | | |
| | S. Trimby | M | B | S211B |
| EC8-201 | MICROECONOMICS | | | |
| | G. Kelley | TH | B | S211B |
| | Prerequisites: See course description | | | |

## EDUCATION

| | | | | |
|---|---|---|---|---|
| ED8-100 | FUNDAMENTALS OF SCHOOL FINANCE | | | |
| | J. Keefe | W | B | S231 |
| ED8-120 | SCHOOL SUPERINTENDENCY | | | |
| | J. Ploski | W | B | S225B |
| ED8-150 | EDUCATIONAL LEADERSHIP | | | |
| | R. Sine | TH | B | S217 |
| ED8-210 | ORGANIZATIONAL PATTERNS OF THE COMMUNITY SCHOOLS | | | |
| | F. Masterson | TH | A | Institute for Community Service |
| ED8-220 | COMMUNITY RESOURCES TO MEET CHILDREN'S NEEDS | | | |
| | K. Burns | TH | A | S211B |
| ED8-250 | CREATIVE THOUGHT AND THE MINORITY EXPERIENCE | | | |
| | C. Quint | W | A | S211B |
| | Prerequisite: See course description | | | |
| ED8-260 | THE EDUCATOR AND CULTURAL DIVERSITY | | | |
| | C. Quint | M | A | S212 |
| | Prerequisites: See course description | | | |
| ED8-270 | COMMUNITY ORGANIZATION | | | |
| | D. Alexander | M | A | Institute for Community Service |
| ED8-280 | SURVEY OF ADULT EDUCATION | | | |
| | Staff | T | A | Institute for Community Service |
| ED8-330 | METHODS AND MATERIALS IN EARLY CHILDHOOD EDUCATION | | | |
| | M. Titus | M | A | S211A |
| ED8-340 | CHAPTER 622: A TIME FOR CHANGE | | | |
| | Staff | TH | A | LRC112 |

| | | | | |
|---|---|---|---|---|
| ED8-430 | ELEMENTARY SCHOOL CURRICULUM FOR THE SEVENTIES | | | |
| | TBA | W | A | S219A |
| ED8-500 | READING IN THE ELEMENTARY SCHOOL | | | |
| | M. Jennings | W | A | S225A |
| ED8-510 | DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES | | | |
| | M. Jennings | M | A | S225B |
| | Prerequisites: See course description | | | |
| ED8-530 | READING IN THE CONTENT AREAS | | | |
| | G. Scanlon | TH | B | S205 |
| ED8-540 | TEACHING READING IN THE INNER CITY SCHOOLS | | | |
| | B. Pilon | T | A | S212 |
| ED8-600 | CHARACTERISTICS OF CHILDREN WITH LEARNING DISABILITIES | | | |
| | TBA | M | A | S223 |
| ED8-620 | METHODS AND MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES FOR THE SPECIALIST | | | |
| | B. Desrosiers | TH | A | S219B |
| | Prerequisites: See course description | | | |
| ED8-625 | METHODS AND MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES FOR THE CLASSROOM TEACHER | | | |
| | B. Desrosiers | M | A | S301 |
| | Prerequisites: See course description | | | |
| ED8-635 | ASSESSMENT OF SPECIFIC LEARNING NEEDS FOR THE CLASSROOM TEACHER | | | |
| | E. Kallgren | TH | A | S219A |
| | Prerequisites: See course description | | | |
| ED8-640 | ASSESSMENT AND REMEDIATION OF SPECIFIC LEARNING NEEDS FOR THE SPECIALIST | | | |
| | E. Kallgren | M | A | S211A |
| | Prerequisites: See course description | | | |
| ED8-650 | PROGRAM DEVELOPMENT AND EVALUATION FOR DEPARTMENT HEADS AND ADMINISTRATORS | | | |
| | E. Kallgren | W | A | S216 |
| ED8-655 | PROGRAM DEVELOPMENT AND EVALUATION FOR THE GENERIC SPECIAL TEACHER | | | |
| | B. Desrosiers | W | A | S217 |
| | Prerequisites: See course description | | | |
| ED8-750 | BEGONE DULL GRAMMAR | | | |
| | C. Osborne | W | A | S219B |
| ED8-755 | TEACHING SECONDARY SCHOOL MATHEMATICS | | | |
| | V. Campo | M | A | S216 |
| ED8-910 | INTRODUCTION TO USING THE COMPUTER AS AN INSTRUCTIONAL AID | | | |
| | J. Dowling | TH | B | Ampitheatre |
| ED8-916 | DRIVER AND SAFETY EDUCATION II | | | |
| | A. Capozzo | T | B | S125 |
| ED8-920 | PHILOSOPHY OF EDUCATION | | | |
| | W. Masterson | M | A | S231 |
| ED8-925 | EDUCATIONAL PSYCHOLOGY | | | |
| | A. Daley | T | A | S211B |
| ED8-926 | EDUCATIONAL PSYCHOLOGY | | | |
| | K. Burns | T | B | S128 |
| ED8-940 | LEADERS IN AMERICAN EDUCATION | | | |
| | J. Tracy | W | B | S211A |

| | | | | |
|---|---|---|---|---|
| ED9-105 | PUBLIC SCHOOL ADMINISTRATION<br>T. Provo | T | B | Institute for Community Service |
| ED9-110 | SCHOOL LAW I<br>J. Scola | TH | B | S226 |
| ED9-111 | SCHOOL LAW I<br>J. Scola | T | A | S226 |
| ED9-112 | SCHOOL LAW II<br>J. Scola<br>Prerequisites: See course description | M | B | S226 |
| ED9-113 | SCHOOL LAW II<br>J. Scola<br>Prerequisites: See course description | W | A | S226 |
| ED9-130 | SEMINAR IN ADMINISTRATIVE THEORY<br>N. Reyburn | T | B | S211A |
| ED9-190 | SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION<br>TBA | TH | B | Institute for Community Service |
| ED9-210 | THE COMMUNITY SCHOOL: ITS ADMINISTRATION AND SUPERVISION<br>W. O'Neil | T | B | Institute for Community Service |
| ED9-215 | TEACHING THE ILLITERATE ADULT<br>J. Spivak | TH | A | Institute for Community Service |
| ED9-290 | SPECIAL PROBLEMS IN COMMUNITY EDUCATION<br>TBA | W | B | Institute for Community Service |
| ED9-350 | SUPERVISION AND ADMINISTRATION IN EARLY CHILDHOOD EDUCATION<br>J. Polito | T | A | LRC112 |
| ED9-380 | SEMINAR IN EARLY CHILDHOOD EDUCATION<br>J. Bunuan | W | A | LRC112 |
| ED9-385 | INDEPENDENT RESEARCH IN EARLY CHILDHOOD EDUCATION<br>Staff | M | A | LRC112 |
| ED9-520 | ADMINISTRATION AND SUPERVISION OF READING PROGRAMS<br>J. F. O'Mara | T | A | S228 |
| ED9-780 | SECONDARY EDUCATION PROJECT/SEMINAR<br>M. ZAX | T | C | Lancer Rm. |
| ED9-810 | PRINCIPLES OF CURRICULUM DEVELOPMENT<br>F. Masterson | S | D | Institute for Community Service |
| ED9-820 | EVALUATION OF CLASSROOM LEARNING<br>TBA | M | A | S205 |
| ED9-960 | RESEARCH IN EDUCATION<br>D. Hilton | M | A | S214 |
| ED9-961 | RESEARCH IN EDUCATION<br>M. Costello | T | B | S214 |
| ED9-962 | RESEARCH IN EDUCATION<br>R. Griffiths | W | A | S223 |

| | | | | |
|---|---|---|---|---|
| ED9-963 | RESEARCH IN EDUCATION | | | |
| | D. Tower | M | B | S214 |
| ED9-970 | ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION | | | |
| | C. Schlosser | M | B | S128 |
| ED9-971 | ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION | | | |
| | D. Traub | T | A | S128 |
| ED9-972 | ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION | | | |
| | TBA | W | B | S128 |
| ED9-973 | ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION | | | |
| | D. Traub | TH | A | S126 |
| | Prerequisites: See course description | | | |
| ED9-980 | ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION | | | |
| | J. Shea | M | A | S217 |
| ED9-981 | ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION | | | |
| | TBA | T | B | S217 |
| ED9-982 | ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION | | | |
| | TBA | W | B | S217 |
| ED9-983 | ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION | | | |
| | J. Jones | TH | B | S219A |
| | Prerequisites: See course description | | | |

## ENGLISH

| | | | | |
|---|---|---|---|---|
| EN7-100 | ENGLISH COMPOSITION | | | |
| | K. Downey | TH | A | S124 |
| EN7-120 | ENGLISH LITERATURE I | | | |
| | R. Ellis | W | B | S211B |
| EN7-230 | THE MODERN BRITISH NOVEL | | | |
| | R. Walker | M | A | S125 |
| EN7-420 | SHAKESPEARE I | | | |
| | M. Goldwyn | W | A | S124 |
| EN8-300 | APPROACHES TO THE LITERARY EXPERIENCE | | | |
| | J. Roberts | M | B | S117A |
| EN8-350 | THE ROMANTIC FLOWERING IN AMERICAN LITERATURE | | | |
| | K. Gibbs | T | A | S117A |
| EN9-200 | THE DRAMA to 1642 | | | |
| | P. Edmunds | M | A | S117B |

## FOREIGN LANGUAGE

| | | | | |
|---|---|---|---|---|
| FL8-200 | CONTRASTIVE SYNTAX: THE PSYCHOLOGY OF LEARNING A SECOND LANGUAGE AND DERIVED METHODOLOGIES | | | |
| | R. Hartwig | T | B | S309 |
| FL8-300 | COMPARATIVE STUDY OF FRENCH AND SPANISH LITERATURE | | | |
| | F. Alcala | W | B | S304 |
| | Prerequisites: See course description | | | |

## FRENCH

| | | | | |
|---|---|---|---|---|
| FR7-150 | INTRODUCTORY CONVERSATIONAL FRENCH | | | |
| | Y. Martel | W | A | S311A |
| FR9-200 | ADVANCED CONVERSATION | | | |
| | J. Celona | T | B | S304 |

## GEOGRAPHY

| | | | | |
|---|---|---|---|---|
| GE8-100 | CULTURAL GEOGRAPHY | | | |
| | R. Hunt | M | A | A304 |
| GE8-150 | WORLD REGIONAL GEOGRAPHY-PART II | | | |
| | G. Knadler | M | B | A316 |

## GUIDANCE

| | | | | |
|---|---|---|---|---|
| GU8-100 | PRINCIPLES AND PRACTICES IN GUIDANCE | | | |
| | L. Farrey | M | B | S212 |
| GU8-300 | TECHNIQUES OF COUNSELING | | | |
| | P. Steinkrauss | TH | B | S216 |
| | Prerequisites: See course description | | | |
| GU8-400 | COUNSELING AND GUIDANCE IN THE ELEMENTARY SCHOOL | | | |
| | R. Isabelle | TH | A | S212 |
| | Prerequisites: See course description | | | |
| GU8-500 | COUNSELING THE PHYSICALLY HANDICAPPED | | | |
| | R. Cashman | W | A | S212 |
| GU8-550 | HUMAN AWARENESS AND CAREER DEVELOPMENT | | | |
| | C. Mielo | W | B | S227 |
| GU9-250 | GROUP COUNSELING | | | |
| | R. Gilmartin | T | B | S216 |
| | Prerequisites: See course description | | | |
| GU9-350 | INDIVIDUAL INTELLIGENCE APPRAISAL-BINET | | | |
| | TBA | T | A | S216 |
| | Prerequisites: See course description | | | |
| GU9-375 | OCCUPATIONAL INFORMATION | | | |
| | J. Scannell | TH | B | S126 |
| | Prerequisites: See course description | | | |
| GU9-500 | PUPIL PERSONNEL SERVICES | | | |
| | S. Potter | M | A | S126 |
| | Prerequisites: See course description | | | |
| GU9-800 | PRACTICUM IN COUNSELING | | | |
| | F. Taylor | T | A | S211B |
| | Prerequisites: See course description | | | |
| GU9-900 | SEMINAR: CURRENT ISSUES IN GUIDANCE AND COUNSELING | | | |
| | Staff | W | C | Lancer Rm. |
| | Prerequisites: See course description | | | |

## HEALTH

| | | | | |
|---|---|---|---|---|
| HE8-250 | HUMAN SEXUALITY AND SEX EDUCATION | | | |
| | H. Munson | M | A | LRC304 |
| HE9-275 | SCHOOL HEALTH COUNSELING | | | |
| | H. Munson | M | B | LRC304 |

| | | | | |
|---|---|---|---|---|
| HE8-300 | DRUGS AND SOCIETY<br>C. Radlow | T | A | LRC304 |
| HE8-350 | PERSONAL HEALTH<br>D. Read | W | A | LRC304 |
| HE8-400 | MENTAL HEALTH EDUCATION IN THE SCHOOL<br>J. Corry | W | B | LRC112 |
| HE8-420 | DRUGS, ALCOHOL, TOBACCO AND YOU<br>J. Corry | T | B | LRC116 |

## HISTORY

| | | | | |
|---|---|---|---|---|
| HI8-100 | U.S. HISTORY I<br>G. Mitchell | M | A | S211B |
| HI8-200 | CIVIL WAR AND RECONSTRUCTION<br>R. McGraw | T | A | S214 |
| HI8-250 | RUSSIA FROM PETER THE GREAT TO THE COLD WAR<br>TBA | W | B | S219B |
| HI8-275 | COMPARATIVE REVOLUTION<br>G. Leeds | T | A | S217 |
| HI8-300 | AMERICAN FOREIGN POLICY SINCE THE COLD WAR<br>E. Shea | TH | A | S225B |
| HI8-350 | IMAGE OF WOMEN IN AMERICAN HISTORY<br>G. Leeds | W | B | S226 |
| HI8-400 | STUART IRELAND<br>C. Yuan | W | A | S214 |
| HI9-100 | EUROPE IN THE 19TH CENTURY<br>E. Hedman | M | B | S124 |

## MATHEMATICS

| | | | | |
|---|---|---|---|---|
| MA7-310 | CALCULUS III<br>J. Hayes<br>Prerequisites: See course description | TH | B | S227 |
| MA8-380 | PROBABILITY<br>M. Hill<br>Prerequisites: See course description | W | A | S227 |
| MA9-200 | TOPICS IN GEOMETRY<br>R. Redding<br>Prerequisites: See course description | M | A | S227 |

## MEDIA

| | | | | |
|---|---|---|---|---|
| ME8-145 | PREPARATION OF INEXPENSIVE INSTRUCTIONAL MEDIA<br>G. Mitchell | W | A | LRC118 |
| ME8-150 | COMMUNICATION THEORY<br>G. Mitchell | T | A | LRC118 |
| ME8-160 | PRODUCTION AND DIRECTION OF T.V. PROGRAMS<br>R. Jones | T | C | LRC160 |
| ME8-270 | INTRODUCTION TO PHOTOGRAPHY<br>TBA | M | B | LRC122 |
| ME8-275 | ADVANCED PHOTOGRAPHY<br>W. Byers<br>Prerequisites: See course description | W | B | LRC122 |
| ME/SD 8-350 | INTRODUCTION TO THE THEATRE<br>D. Seiffer | M | A | LRC116 |
| ME/SD 8-370 | ADVANCED CREATIVE DRAMATICS<br>A.M. Shea | T | A | LRC112 |

| | | | | |
|---|---|---|---|---|
| ME8-400 | SEMINAR: LIBRARIAN/MEDIA SPECIALIST - TEACHER CO-OPERATION IN THE DESIGN OF INSTRUCTION | | | |
| | V. Piccolo | TH | A | LRC114 |
| | Prerequisites: see course description | | | |

## MUSIC

| | | | | |
|---|---|---|---|---|
| MU8-250 | MUSIC APPRECIATION | | | |
| | R. Sahagian | T | A | S124 |
| MU8-300 | OPERA: ORIGIN, DEVELOPMENT AND APPRECIATION | | | |
| | L. Celona | W | B | S124 |

## NATURAL SCIENCE

| | | | | |
|---|---|---|---|---|
| NS8-101 | PHYSICAL SCIENCE I | | | |
| | W. Belanger | W | B | S232 |
| NS8-105 | INTRODUCTION TO ASTRONOMY | | | |
| | H. Chapman | T | B | S231 |

## NURSING

| | | | | |
|---|---|---|---|---|
| NU7-310 | NURSING THROUGH THE LIFE SPAN I: MEDICAL AND SURGICAL NURSING | | | |
| | M. Lovering | TH | A | G24 |
| NU8-200 | THE NURSE AND THE LAW | | | |
| | G. Najemy | T | A | G24 |
| NU8-250 | FOUNDATIONS OF FAMILY THERAPY | | | |
| | S. Blum | M | A | G24 |
| NU8-440 | LEADERSHIP IN NURSING INTERVENTION | | | |
| | L. Goodman | T | A | S225B |
| | Prerequisites: See course description | | | |

## PHILOSOPHY

| | | | | |
|---|---|---|---|---|
| PH7-100 | INTRODUCTION TO PHILOSOPHY | | | |
| | N. Brophy | W | B | S228 |
| PH7-200 | INTRODUCTION TO 20TH CENTURY RELIGIOUS THOUGHT | | | |
| | G. Garrelts | T | B | S126 |
| PH8-120 | PHILOSOPHICAL PSYCHOLOGY | | | |
| | TBA | W | B | S219A |
| PH8-200 | ETHICS: MORAL DIMENSIONS OF HUMAN EXISTENCE | | | |
| | N. Brophy | M | A | S228 |
| PH8-236 | PHILOSOPHY AND THE RISE OF SOCIAL THEORY: AN INTRODUCTION | | | |
| | G. Robbins | T | B | S219A |
| PH8-245 | INTRODUCTION TO THE PHILOSOPHY OF ART | | | |
| | D. Schaff | M | B | S211A |
| PH8-250 | INTRODUCTION TO THE PHILOSOPHY OF RELIGION | | | |
| | G. Garrelts | TH | B | S125 |
| PH8-291 | PHILOSOPHY OF HUMAN POTENTIALITY: AN EXPERIMENTAL APPROACH | | | |
| | C. Schlosser | TH | B | LRC304 |

## PHYSICAL EDUCATION

| | | | | |
|---|---|---|---|---|
| PE8-100 | MOVEMENT EDUCATION | | | |
| | H. Semerjian | T | A | Gym |
| PE8-600 | THE ORGANIZATION AND ADMINISTRATION OF ATHLETICS | | | |
| | J. Mockler | W | A | G24 |

## PSYCHOLOGY

| | | | | |
|---|---|---|---|---|
| PS7-110 | GENERAL PSYCHOLOGY I | | | |
| | J. Lonergan | M | A | S132 |
| PS7-115 | GENERAL PSYCHOLOGY II | | | |
| | G. Matheson | W | A | S205 |
| PS7-120 | PSYCHOLOGICAL STATISTICS | | | |
| | J. Allard | W | B | A103 |
| PS8-750 | THEORIES OF PERSONALITY | | | |
| | R. O'Connor | T | B | S225A |
| PS8-775 | ABNORMAL PSYCHOLOGY | | | |
| | J. Nash | T | B | S205 |
| PS8-800 | ENCOUNTER THEORY AND PRACTICE | | | |
| | B. Guarini | M | B | S219A |

## SOCIOLOGY

| | | | | |
|---|---|---|---|---|
| SO7-100 | INTRODUCTORY SOCIOLOGY | | | |
| | F. Brooker | M | B | S125 |
| SO8-100 | POLITICAL SOCIOLOGY | | | |
| | M. Zelman | M | A | S311A |
| | Prerequisites: See course description | | | |
| SO8-200 | SOCIOLOGY OF EDUCATION | | | |
| | F. Pizziferri | T | A | S311A |
| | Prerequisites: See course description | | | |
| SO8-250 | FORMAL ORGANIZATIONS | | | |
| | T. Johnson | T | B | S212 |
| | Prerequisites: See course description | | | |
| SO8-300 | MEDICAL SOCIOLOGY | | | |
| | B. Khleif | W | B | S225A |
| | Prerequisites: See course description | | | |
| SO8-350 | SOCIOLOGY OF RELIGION | | | |
| | Turberville | T | A | S219A |
| | Prerequisites: See course description | | | |
| SO8-375 | CRIMINOLOGY | | | |
| | R. Goss | TH | B | S228 |
| | Prerequisites: See course description | | | |

## SPANISH

| | | | | |
|---|---|---|---|---|
| SP7-150 | FUNDAMENTALS OF SPANISH II | | | |
| | F. O'Connor | W | B | S312 |
| SP8-200 | SPANISH PRACTICUM IV | | | |
| | K. Shea | T | A | S304 |
| SP8-300 | ADVANCED ESL METHODS AND MATERIALS | | | |
| | J. Corcoran | M | A | S304 |

| | | | | |
|---|---|---|---|---|
| SP8-320 | SPANISH AMERICAN ESSAYISTS<br>K. Shea | TH | A | S304 |
| | Prerequisites: See course description | | | |

## SPEECH AND DRAMATICS

| | | | | |
|---|---|---|---|---|
| ME/SD 8-350 | INTRODUCTION TO THE THEATRE<br>D. Seiffer | M | A | LRC116 |
| ME/SD 8-370 | ADVANCED CREATIVE DRAMATICS<br>A.M. Shea | T | B | LRC112 |

## URBAN STUDIES

| | | | | |
|---|---|---|---|---|
| UR8-100 | INTRODUCTION TO URBAN STUDIES<br>V. Powers | TH | B | S225B |
| UR8-200 | STRUCTURE AND FUNCTION OF URBAN ORGANIZATIONS<br>H. Langlois | T | B | S225B |

# COURSE DESCRIPTIONS

The first line of each course listing below indicates the course number and course title. The second line indicates the name of the instructor, the day the course is offered (day code), time (time code), and room number (Institute for Community Service is located at 251 Salisbury Street, Worcester, Mass.).

DAY CODE: M (Monday); T (Tuesday); W (Wednesday) TH (Thursday);S (Saturday).

TIME CODE: A (4:30 – 7:00 p.m.); B (7:00 – 9:30 p.m.); C (5:00 – 8:00 p.m.); D (9:00 – 11:30 a.m.).

## ART

AR8-105 MIXED MEDIA. The purpose of this course is to explore various ways of mixing art media together in both two and three dimensional forms. This is a studio course. D. Carter (T,B) 3 sem. hrs. A-400.

AR8-110 FIGURE DRAWING. Drawing the human figure using various media, such as pencil, charcoal, chalk. Proportions, motion, lighting and other elements are considered. M. Merle (W,B) 3 sem. hrs. Rm. G-23.

AR8-115 BASIC WOOD DESIGN. A basic introduction to wood as a constructing material. Originality of design is encouraged. Hand tools and power tools are explored. D. Dick (M,B) 3 sem. hrs. Rm. G-23.

AR8-120 CREATIVE PAINTING I. A studio course designed to acquaint the beginner with the basic tools, techniques and styles of painting. J. Casale (TH,A) 3 sem. hrs. Room A-105B.

## BIOLOGY

BI8-150 MYCOLOGY. The fungal world from morphological cytological, physiological and evolutionary viewpoints; genera and species of economic importance; culturing methods. Lectures and laboratory. Pre-requisites: Three courses in biology. T. Thurston (TH,B) 3 sem. hrs. Rm. S-128.

BI8-250 HUMAN ANATOMY AND PHYSIOLOGY. Integration, organization and dynamics of normal human body systems; physiological experiments and demonstrations and dissection of organs and specimens. Includes a laboratory. Pre-requisites: General Biology II, General Zoology or consent of instructor. T. Graham, (M/W,A) 4 sem. hrs. Rm. S-125.

BI9-100 ENVIRONMENTAL PHYSIOLOGY. The several systems of the mammalian body with special reference to man, involved in response to extreme natural and artificial environments - including the study of the physiological response of these systems to specific stresses, mechanisms of adaptation, pathology and detrioation resulting when environmental limits are reached and where homeostatic mechanisms cannot be maintained. The specific stresses studied will include heat, cold altitude, hyperbaris, space, poisons in the environment, exercise, thirst, starvation, sleep deprivation, emotions and air-borne stressors. Pre-requisites: Mammalian Physiology, Comparative Animal Physiology, Human Anatomy and Physiology or consent of instructor. M. Kreider (T,A) 3 sem. hrs. Rm. S-126.

BI9-200 IMMUNOCHEMSTRY. The nature of various immune reactions: the nature of the antigen-antibody reaction: qualitative and quantitative clinical applications. Recent contributions of immunology and immunochemistry to problems of genetics, biochemistry and molecular biology; problems of storage and transmission of biologic information in relation to cell growth, differentiation, survival and evolution and as applied to the immune response and to immunologic specificity. The basic design of immunologic-immunochemical experimentation is discussed. Includes a laboratory. Pre-requisites: Endocrinology, Human Anatomy and Physiology, Comparative Animal Physiology and consent of instructor. T. Roberts (M/W, B) 4 sem. hrs. Rm. S-126.

BI9-300 SPECIAL PROBLEMS IN BIOLOGY. A directed study, research and readings course in Biology. T. Roberts (T,A) 3 to 6 sem. hrs. Rm. S-132.

## BUSINESS ADMINISTRATION

AD7-110 INTRODUCTORY ACCOUNTING I. Principles of Accounting and fundamental concepts. Pre-requisites: None. R. Goodrich (W,A) 3 sem. hrs. Rm. S - 117 B.

AD7-111 INTRODUCTORY ACCOUNTING II. Concepts covered in Accounting I are reviewed and additional concepts presented. Pre-requisite: Introductory Accounting I. R. Goodrich (W,B) 3 sem. hrs. S-117B.

AD7-200 INTERNSHIP SEMINAR. Study of concepts and functions in management of all types of work organizations-supervision processes are stressed. Case analysis and discussion methods used. Pre-requisites: None. R. Juralewicz (T,A) 3 sem. hrs. Rm. S-117B.

AD7-301 THEORY AND CASES IN ADMINISTRATION II. Builds on basic concepts in first course. Cases in all types of work organizations are studied and analyzed for successful administration. Pre-requisite: Theory and Cases in Administration I or permission. S. Davis (TH,B) 3 sem. hrs. Rm. S-117B.

AD7-306 PRINCIPLES OF PERSONNEL MANAGEMENT. Functions of personnel management, includes wage and salary job analysis, organization development, etc. Pre-requisite: Administrative Practices and Behavior. D. Kane (TH,A) 3 sem. hrs. Rm. S-117A.

AD7-315 INFORMATION SYSTEMS. Examines organizations as a system of information. Systems are developed for inventory control, personnel records, etc. Pre - requisites: Managerial Accounting and Budgeting, Introduction to Computer Science, Computer Programming with Cobol. L. Graubard, (M,B) 3 sem. hrs. Rm. S-223.

AD7-325 PLANNING, FORECASTING AND CONTROL. Forecasting, planning, control, market strategies of all types of administration goal formulation and use of control are focused upon. Pre-requisite: Internship Seminar or permission. S. Davenport (TH,B) 3 sem. hrs. Rm. S-223.

AD8-405 MARKETING I. Basic principles of marketing, distribution, sales, etc. Pre-requisites: None. J. Weaver (M,A) 3 sem. hrs. Rm. S-117A.

AD8-408 FUNDAMENTALS OF PRODUCTION MANAGEMENT II. Builds on fundamental processing and control production techniques covered in the first course. Special topics approach the quantitive models for effective production management. Pre-requisite: Fundamentals of Production Management I. B. Sarkar (T,B) 3 sem. hrs. Rm. S-117B.

AD8-463 SELECTED TOPICS IN PUBLIC ADMINISTRATION. Basic recevant concepts in public and government administration are reviewed and studied. Course is designed for students with career aspirations in public and government administration. Pre-requisites: none. TBA (W,B) 3 sem. hrs. Rm. S-223.

AD8-473 SELECTED TOPICS IN BUSINESS ADMINISTRATION. Elements of collective bargaining. Review of U.S. Labor unionism causes mediation arbitration, etc. Pre-requisites: Theory and Cases in Administration II; Principles of Personnel Management; Managerial Accounting and Budgeting. T. Hourihan (M,A) 3 sem. hrs. Rm. S-309.

## CHEMISTRY

CH8-155 **CURRENT TRENDS IN CHEMISTRY AND NUTRITION.** A study of the basic concepts of chemistry with contemporary applications. The nutrition portion of the course considers the nutritional requirements of man, classes of foods, dietary fads, and the use of additive in prepared foods. M. Merken (W,B) 3 sem. hrs. Rm. S-301.

CH8-250 **PHYSICAL CHEMISTRY: A LIFE SCIENCE APPROACH.** A non-calculus course covering the basic principles of physical chemistry. Studies the factors influencing the direction, extent and speeds of chemical reactions and molecular structure. Biological applications include: enzyme catalysis, metabolism, identification and assay of biochemicals. Pre-requisites: General Chemistry I-II; College Algebra (1 year). R. Harris (TH,A) 3 sem. hrs. Rm. S-316.

## COMMUNICATIONS DISORDERS

CD8-100 **INTRODUCTION TO SIGN LANGUAGE.** Students will be exposed to the manual alphabet (also known as finger spelling) both expressively and receptively, enabling them to learn a minimum of 600 signs in the American Sign Language and the fundamental concepts of deaf grammatical structure so that basic sentences can be termed. S. Bitticks (TH,B) 3 sem. hrs. Rm. S-132.

CD8-110 **ADVANCED SIGN LANGUAGE.** Giving students with a basic knowledge of signs more facility in their uses; exposure to deaf people of varied language levels; expanding sign vocabularies; attaining a level of proficiency in the expressive and receptive use of signs which will enable them to communicate with the Deaf; "A Basic Course in Manual Communication" published by the National Association of the Deaf (NAD) and other NAD material may be used. S. Bitticks (W,B) 3 sem. hrs. Rm. S-205.

CD8-200 **LANGUAGE THERAPY FOR THE DEAF AND HARD OF HEARING.** Receptive and expressive language acquisition of the auditorily impaired; emphasis on learning disabilities and social disabilities related to hearing impairments; consideration of techniques for appraisal and identification of symptoms and factors associated with language disfunctions. R. Guerin (W,B) 3 sem. hrs. Rm. S-125.

CD8-210 **PRINCIPLES OF TEACHING THE HANDICAPPED** Prerequisites: None. Special methods and techniques for teaching the handicapped who have speech and

hearing impairments, e.g., cleft palate, deaf, cerebral palsy. C. Lysaght (M,A) 3 sem. hrs. Rm. S-128.

CD8-220 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISMS. Normal anatomy and physiology of the speech and hearing mechanisms with emphasis on respiration, phonation, resonance, articulation and audition. Pre-requisite: Speech Pathology. J. McLaughlin (W,B) 3 sem hrs. Rm. S-309.

CD8-230 NEUROLOGICAL DISORDERS OF SPEECH. Communication difficulties associated with cerebral insult; rehabilitative procedures in speech and language. Prerequisite: Speech Pathology. A. Cohen (W,A) 3 sem. hrs. Rm. S-128.

CD8-240 INTRODUCTION TO HEARING SCIENCE. Basic information necessary for the field of Audiology; topics included – acoustics, frequency and intensity measurements, and anatomy and physiology of the human ear as it relates to the study of hearing. Prerequisites: Speech Pathology, Phonetics, and Anatomy and Physiology of the Speech and Hearing Mechanisms. C. Hengen (M,A) 3 sem. hrs. Rm. S-310.

CD8-250 LANGUAGE DISORDERS. The processes interfering with normal language acquisition and disorders which disturb established language skills in children and adults; majors only; exceptions need permission of instructor. Prerequisites: Speech Pathology, Phonetics, Introduction to Hearing Science, Audiology, Normal Development of Speech and Language and Anatomy and Physiology of Speech and Hearing Mechanism. M. Read (T,A) 3 sem. hrs. Rm. S-125.

## COMPUTER SCIENCE

CS8-100 INTRODUCTION TO COMPUTER SCIENCE. Basic computer operation, capabilities, application in such fields as education, and effect on modern society; familiarization with terminology and equipment; programming using the language BASIC: non-technical approach. TBA (M,A) 3 sem. hrs. LRC 117.

CS8-200 COMPUTER PROGRAMMING WITH FORTRAN IV. Uses of computers for mathematical and scientific problem-solving; topics include input-out statements, program branching, DO-loops, formatting, subscripted variables, subroutines, double-precision, character manipulation, and flowcharting. TBA (T,B) 3 sem. hrs. LRC 304.

CS8-250 COMPUTER PROGRAMMING WITH COBOL. Fundamentals of Cobol programming: application to

business oriented problems. M. Mulcahy (W,A) 3 sem. hrs. LRC 306.

CS8-275 ADVANCED COBOL AND RFG. Higher level aspects of COBOL are considered, including advanced programming techniques, creating tape and disk files, and the storing, searching, merging, up-dating, and purging of files. The programming language RFG will also be introduced. H. Martell (TH,A) 3 sem. hrs. LRC 304.

CS9-100 NUMERICAL METHODS USING COMPUTERS. Numerical algorithms, techniques, and practical procedures for computer application. Standard Algorithms from calculus, linear algebra, differential equations, and numerical analysis are considered. R. Redding (W,B) 3 sem. hrs. LRC Rm. 114.

## ECONOMICS

EC8-110 PRINCIPLES OF ECONOMICS II. An introduction to the operation of the American Market System and to behavior of its participants, whether consumers, producers, the government or other nations engaged in international trade with the United States. S. Timby (M,B) 3 sem. hrs. Rm. S-211 B.

EC8-201 MICROECONOMICS. An intermediate level treating the theory of marketing pricing in a private enterprise system as it affects the resource and output decision of firms and industries under various market structures. Prerequisite: Principles of Economics II or permission G. Kelley (TH,B) 3 sem. hrs. Rm. S-211B.

## EDUCATION

ED8-100 FUNDAMENTALS OF SCHOOL FINANCE. The financial support and the allocation of resources in public education; topics -- personnel salaries, capital outlay; developmental expenditures, and the budgetary process; supply and demand in educational services and education expenditures as a part of national state, and local income. J. Keefe (W,B) 3 sem. hrs. Rm. S-225 B.

ED8-120 SCHOOL SUPERINTENDENCY. An introductory course in school administration for those professionals whose career goals are ultimately to aspire to central office assignments including the position of Superintendent of Schools; study of the typical problems associated with the school superintendency including school business affairs, contract negotiations, staff personnel management, school community relationships, legal aspects of school administration, school plant utilization, school committee policies and regulations, school bus transportation and long range planning for

school systems. Prerequisite: At least two graduate courses in school administration or consent of instructor. J. Ploski (W,B) 3 sem. hrs. Rm. S-231.

ED8-150 EDUCATION LEADERSHIP. Organizational theory discussed at length as each theory relates to the decision making function of the school administrator. R. Sine (TH,B) 3 sem. hrs. Rm. S-217.

ED8-210 ORGANIZATIONAL PATTERNS OF THE COMMUNITY SCHOOLS. National, state and local patterns of organizations within the community education movement will be developed; community school concept explored as it relates to the total community education movement. J. Masterson (TH,A) 3 sem. hrs. Institute for Community Service.

ED8-220 COMMUNITY RESOURCES TO MEET CHILDREN'S NEEDS. Primarily for elementary teachers to survey programs and resources available in the community, state, and at national levels; social and family services health, medical and mental health facilities; consideration of new concepts in health care and juvenile programs. K. Burns (TH,A) 3 sem. hrs. Rm. S-211 B.

ED8-250 CREATIVE THOUGHT AND MINORITY EXPERIENCE. Provides opportunities for students to discover, explore, evaluate, appreciate and collate examples and illustrations of creative expression in verbal and non-verbal forms as they are related to the minority experience in America. Prerequisite: Education and Race Relations. C. Quint (W,A) 3 sem. hrs. Rm. S-211 B.

ED8-260 THE EDUCATORS AND CULTURAL DIVERSITY. Enables the educator to better understand the roots of the culturally diverse expression found in today's classrooms and recognize the aesthetic, historical, contemporary idealogical and societal forces which are responsible for the expression of these differences; emphasis given to the contributions of American Indians, Chicanos, and Puerto Ricans to the contemporary as well as to the American Heritage. Prerequisite: American History or consent of Instructor. C. Quint (M,A) 3 sem. hrs. Rm. S-212.

ED8-270 COMMUNITY ORGANIZATION. An exploration of neighborhood power with an emphasis on issue orientation; a "how to do it" course providing practical experience; participants will consider the theoretical background of community organizations and then develop a plan to act on a selected neighborhood issue. D. Alexander (M,A) 3 sem. hrs. Institute for Community Service.

ED8-280 **A SURVEY OF ADULT EDUCATION.** An overview of Adult Education with major emphasis placed on the scope of the field; legislation pertaining to Adult Education; and future developments; lesser importance will be placed on the history of the movement, methods of teaching adults, and Adult Education in Massachusetts. Staff (T,A) 3 sem. hrs. Institute for Community Service.

ED8-330 **METHODS AND MATERIALS IN EARLY CHILDHOOD EDUCATION.** Focus on the curriculum and the daily activities designed to enable young children to use their development powers to the fullest; ways and means by which the teacher creates an environment rich in learning opportunities geared to the age level characteristic of young children will be considered. Registration is limited to those interested in nursery and/or kindergarten classes. M. Titus (M,A) 3 sem. hrs. Rm. S-211 A.

ED8-340 **CHAPTER 622: A TIME FOR CHANGE.** Focus on the implications of Chapter 622 which prohibits discrimination in public schools; conducted by a panel of guest speakers who will discuss recent research and findings in discrimination due to race, color, sex, religion or natural origin; implications for implementing and administering this law as it affects young children discussed. Staff (TH,A) 3 sem. hrs. LRC Room. 112.

ED8-430 **ELEMENTARY SCHOOL CURRICULUM FOR THE 70'S.** The investigation of recent development in practices, materials of instruction and techniques, and unit and activity planning will be placed on types of lessons, techniques of assignments and diagnostic procedures. TBA (W,A) 3 sem. hrs.Rm. S219A.

ED8-500 **READING IN THE ELEMENTARY SCHOOL.** Intensive overview of the basic reading skills; effective teaching strategies, utilization of multi-media in reading instruction. M. Jennings (M,A) 3 sem. hrs Rm. S 225 B.

ED8-510 **DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES.** Evaluation instruments and procedures; techniques for removing deficits; tutoring a disabled reader(s), writing a case report. Prerequisite: Reading in Elementary School. M. Jennings (M,A) 3 sem. hrs. Rm. S-225 B.

ED8-530 **READING IN THE CONTENT AREAS.** The study skills involved in reading in various subject matter areas; materials and teaching strategies critically evaluated. G. Scanlon, (TH,B) 3 sem. hrs. Rm. S-205.

ED8-540 TEACHING READING IN THE INNER CITY SCHOOL. The multi-faceted problems which many inner-city children face in trying to master the skills of reading explored; techniques for remedying the difficulties presented; teachers given the chance to consider in depth how they will offset the barriers to language and reading achievement which many of these children face. B. Pilon (T,A) 3 sem. hrs. Rm. S-212.

ED8-600 CHARACTERISTICS OF CHILDREN WITH LEARNING DISABILITIES. Provides a basic understanding of the learning disabled child through a consideration of the history and development of the area; the terminology and the current points of view discussed; factors which impede learning analyzed through a discussion of diagnostic procedures. Class size limited to 20. TBA (M,A) 3 sem. hrs. Rm. S-223.

ED8-620 METHODS AND MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES FOR THE SPECIALIST. Specialist's relationship to the classroom teacher considered; process and task analysis; the nature of the remediation process; and behavioral, perceptual, and academic programming and materials appropriate for the resource room. Prerequisite: Characteristic of Children with Learning Disabilities and permission of the Instructor. B. Desrosiers (TH, A) 3 sem. hrs. Rm. S-219 B.

ED8-625 METHODS AND MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES FOR THE CLASSROOM TEACHER. Consideration of both a process analysis and task analysis approach to remediation; to include behavioral, perceptual, and academic techniques suitable for the regular classroom; mainstreaming will be emphasized. Prerequisites: Characteristics of Children with Learning Disabilities and permission of the instructor. B. Desrosiers (M,A) 3 sem. hrs. Rm S-301.

ED8-635 ASSESSMENT OF SPECIFIC LEARNING NEEDS FOR THE CLASSROOM TEACHER. Assessment of learning difficulties as they relate to classroom teaching; overview of testing procedures given by supportive personnel with emphasis on factors related to classroom use for training and remediation. Prerequisite: Characteristics of Children with Learning Disabilities and permission of the instructor. E. Kallgren (TH,A) 3 sem. hrs. Rm. S-211 A.

ED8-640 ASSESSMENT AND REMEDIATION OF SPECIFIC LEARNING NEEDS FOR THE SPECIALIST. Identification of the major learning disorders in terms of

behaviors; the use of data in making a diagnosis for remediation; the use of communication between consultant and teacher regarding student's learning and emotional difficulties; and the use of case studies to show how to translate diagnostic information into effective components of the teaching-learning process. Prerequisite: Characteristics of Children with Learning Disabilities and permission of the instructor. E. Kallgren (M,A) 3 sem. hrs. Rm. S-219 A.

ED8-650 PROGRAM DEVELOPMENT AND EVALUATION FOR ADMINISTRATORS AND DEPARTMENT HEADS. The understanding of the role of the administrator as a facilitator — the role of the team, understanding skill development of the child within the school structure and its relationship to the identification of L.D.; examination of current and proposed organizational plans for the delivery of services; development of cost effectiveness system; program evaluation in terms of meeting the individual child's needs within the total school structure. E. Kallgren (W,A) sem. hrs. Rm. S-216.

ED8-655 PROGRAM DEVELOPMENT AND EVALUATION FOR THE GENERIC SPECIAL TEACHER. The examination of current and proposed organizational plans for the delivery of services; application of research findings to curriculum effectiveness, the initial organization of an L.D. class, the components of mainstreaming, the teacher's role in implementing the program and the role of the team. Prerequisite: three courses in learning disabilities and permission of the Instructor. B. Desrosiers (W,A) 3 sem. hrs. Rm. S-217.

ED8-750 BEGONE DULL GRAMMAR. Particularly for teachers who have to or want to teach grammar; review of causes for failures of past grammar approaches; experiencing of alternative approaches to achieve grammar objective. C. Osborne (W,A) 3 sem. hrs. Rm. S-219 B.

ED8-755 TEACHING SECONDARY SCHOOL MATHEMATICS. Current secondary math curriculum, emphasizing effective teaching practices; including discussion of School Mathematics Study Group (SMSG), Commission of Mathematics of the College Entrance Examination Board, Secondary School Committee of NGTM and others; particular consideration given to discovery approaches, analytic, genetic and laboratory approaches. V. Campo (M,A) 3 sem. hrs. Rm. S-216.

ED8-910 INTRODUCTION TO USING THE COMPUTER AS AN INSTRUCTIONAL AID. The use of the computer in the classroom, developing the Computer's Assisted Instruction, computer languages used are Cobol on a batch processing machine and Basic in a time

sharing terminal environment. J. Dowling (TH,B) 3 sem. hrs. Amphitheatre.

ED8-916 **DRIVER AND SAFETY EDUCATION II.** Application and implications of three publications developed at the National Conference on Safety Education; material designed to give practical guidance to teachers of Driver and Traffic Safety in the area of elementary and secondary education. A. Capozzo (T,B) 3 sem. hrs. Rm. S-125.

ED8-920 **PHILOSOPHY OF EDUCATION.** The onotological epistemological-axiological principles of being, knoledge, and value and their relationship to the nature, existence and destiny of man and the aims of education; analysis of the metaphysical presuppositions of the major philosophers to be a basis of a critique of the opinions concerning nature, man, science, society sanity and salvation upon which "educationists" have foundered and floundered; objective is to arrive at a precise understanding of the relations between educational theory and practice in order to establish a viable interpersonal process for education the individual and society. W. Masterson (M,A) 3 sem. hrs. Rm. S-231.

ED8-925
926 **EDUCATIONAL PSYCHOLOGY.** The theoretical aspects of psychology for the classroom teacher; systematics analysis of the major schools of psychology and a study of the effects of heredity and environment; reading in such areas as the results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement and learning theory. ED8-925 — A. Daly (T,A) 3 sem. hrs. Rm. S-211 B. ED8-926 — K. Burns (T,B) 3 sem. hrs. Rm. S-128.

ED8-940 **KEY READERS IN AMERICAN EDUCATION.** A comprehensive view of American education as seen from the identification and comparison of selected key figures; treatment includes, but not be limited to, the following: Benjamin Franklin, Horace Mann, Edward Thorndike, William James, John Dewey, Carl Rogers, B.F. Skinner, Jerome Bruner, Herbert Kohl, Arthur Combs and Donald Snygg; a seminar setting; the life and thought of each educator treated with special emphasis upon the influence of each on modern American education. J. Tracy (W,B) 3 sem. hrs. Rm. S-211 A.

ED9-105 **PUBLIC SCHOOL ADMINISTRATION.** A historical, philosophical and sociological study of American School Administrator with a major emphasis on the function, duties and responsibilities of the school administrator; practical investigation into the daily problems, roles, techniques, and evaluations that are

required by the administrator. T. Provo (T,B) 3 sem. hrs. Institute for Community Service.

ED9-110 111 SCHOOL LAW I. The investigation of the Laws of the Commonwealth of Massachusetts and their application to Massachusetts School Systems; application of historical reference of law to the modern interpretation of school problems such as locker search, drugs, discipline, attendance and related problems of administrators and teachers. ED9-110 — J. Scola (TH,B) 3 sem. hrs. S-226 ED9-111 — J. Scola (T,A) 3 sem. hrs. Rm. S-226.

ED9-112 113 SCHOOL LAW II. An indepth investigation of specific school laws and how they relate to the administrating of a modern school system. Prerequisites: School Law I. ED9-112 — J. Scola (M,B) 3 sem. hrs. S- 226 ED9-113 — J. Scola (W,A) 3 sem. hrs. S-226.

ED9-130 SEMINAR IN ADMINISTRATIVE THEORY. A seminar course exploring selective administrative theory and its application to modern day educational problems. N. Reyburn (T,B) 3 sem. hrs. Rm. S-211A.

ED9-190 SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION. A practicum experience designed around a special problem in administration of a School System. TBA (TH,B) 3 sem. hrs. Institute for Community Service.

ED9-210 THE COMMUNITY SCHOOL: IT'S ADMINISTRATION AND SUPERVISION. An understanding of Community Education Administration developed for each student in order to effectively prepare them to operate a Community School; various patterns of administration that have evolved in the Community Schools of the U.S. will be explored. W. O'Neil (T,B) 3 sem. hrs. Institute for Community Service.

ED9-215 TEACHING THE ILLITERATE ADULT. An understanding of the scope of adult illiteracy and the methods and procedures for teaching adult illiterates to read; concern given to developing sensitivity to the adult learner. J. Spivak (TH,A) 3 sem. hrs. Institute for Community Service.

ED9-290 SPECIAL PROBLEMS IN COMMUNITY EDUCATION. Devised for graduate students with a background in Community Education; the student works closely with the instructor in the compilation and development of information concerning a particular problem that is current in the field today; consent of the instructor is necessary for registration in this course. TBA (W,B) 3 sem. hrs. Institute for Community Service.

ED9-350 SUPERVISION AND ADMINISTRATION IN EARLY CHILDHOOD EDUCATION. Outline of steps for the organization and administration of day care centers, nursery schools, and other programs which include children from the years of 1 – 6; curriculum planning and staff supervision will be discussed and so will licensing procedures and funding resources. J. Polito (T,A) 3 sem. hrs. LRC 112.

ED9-380 SEMINAR IN EARLY CHILDHOOD EDUCATION. Current issues and problems in the field of Early Childhood Education discussed; students will integrate current early childhood educational research and literature to the philosophical and psychological understanding of the child J. Bunuan (W,A) 3 sem. hrs. LRC 112.

ED9-385 INDEPENDENT RESEARCH IN EARLY CHILDHOOD EDUCATION. Independent study in a specialized area offering greater understanding and appreciation of early childhood; faculty members from other disciplines may also be called in to counsel the student in resource and approaches. Staff (M,A) 3 sem. hrs. LRC 112.

ED9-520 ADMINISTRATION AND SUPERVISION OF READING PROGRAMS. An examination of various theories in the field of current reading programs in school systems; issues under debate by laymen and professionals; the role of the community school in reading programs, pre-kindergarten instruction in reading, uses of reading tests; a look at decision-making administrators and supervisors as well as evaluating and assessing total reading programs, including corrective and remedial aspects, stimulating professional staff development, role of libraries and media centers. J. F. O'Mara (T,A) 3 sem. hrs. Rm. S-228.

ED9-780 SECONDARY EDUCATION PROJECT/SEMINAR. Integration of required, core, and elective courses as applied to secondary education in general, and specifically to school situations of participants; particular emphasis given to foundation (regarding philosophy, psychology, sociology), curriculum and instructional aspects of secondary education; customized project required of each participant. Prerequisite: Completion of 21 semester hours of M.Ed. Concentration in Secondary Education. M. Zax (T,C) 3 sem. hrs. Lancer Room.

ED9-810 PRINCIPLES OF CURRICULUM DEVELOPMENT. Including following aspects of curriculum development: society, culture, learning theories, taxonomics of educational objectives, structure, hierarchy, balance,

politics, strategy for change, and relationship to instruction. F. Masterson (S,D) 3 sem. hrs. Institute for Community Service.

ED9-820 **EVALUATION OF CLASSROOM LEARNING.** Focus on techniques of classroom evaluation, including stating objectives, devising learning contracts, observation techniques, and classroom test construction. TBA (M,A) 3 sem. hrs. Rm. S-205.

ED9-960
961
962
963 **RESEARCH IN EDUCATION.** Use of appropriate research methods in selection and evaluation of data; assisting the graduate student in the preparation and understanding of a research report; major areas of emphasis include the nature of and criteria for evaluating research, library, techniques and format of report, and necessary statistical concepts and methods of research; student expected to demonstrate his knowledge of these in a term research study. Prerequisite: A bachelor's degree from an accredited college. ED9-960 - D. Hilton (M,A) 3 sem. hrs. Rm. S-214 ; ED9-961 - M. Costello (T,B) 3 sem. hrs. Rm. S-214; ED9-962 – R. Griffiths (W,A) 3 sem. hrs. Rm. S-223; ED9-963 -- R. Towers (M,B) 3 sem. hrs. Rm. S-214.

ED9-970
971
972
973 **ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION.** Oriented towards the total self of the student in terms of rationalistic pragmatic and existential-humanistic philosophies of education; emphasis on the deepening, raising, and broadening of one's consciousness about the philosophical phenomena of education, in the contexts of teaching and learning, knowledge and experience, and school and society; students expected to do an-indepth philosophical study of education, drawing upon the sources of knowledge and experience that are to his/her own self-development. Prerequisite: Philosophy of Education or consent of Instructor. ED9-970 – C. Schlosser (M,B) Rm. S-128. ED9-971 - D. Traub (T,A) Rm. S-128. ED9-972 – TBA (W,B) Rm. S- 128. ED9-973 – D. Traub (TH,A) Rm. S-126. All are 3 sem. hrs.

ED9-980
981
982
983 **ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION.** Class-members to study and evaluate the role of those environmental, mental and extramental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes; a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools; attention given to the teachers' role in the learning process and special emphasis on the application of these principles to specific classroom situations. Prerequisites: Educational Psychology or permission of the Instructor. ED9-980 - J. Shea (M,A) S-217. ED9-981 – TBA (T,B) S-217. ED9-982

## ENGLISH

EN7-100 ENGLISH COMPOSITION. Review of English mechanics and writing principles; emphasis will be placed on writing; rhetorical analysis of selected readings; instruction in the techniques of research and in the writing of a research paper. K. Downey (TH,A) 3 sem. hrs. Rm. S-124.

EN7-120 ENGLISH LITERATURE I. The development of English literature from the beginnings to 1798. R. Ellis, (W,B) 3 sem. hrs. Rm. S-211 B.

EN7-230 THE MODERN BRITISH NOVEL. An examination of selected works of major British novelists from 1900 through WW II: Joyce, Lawrence, Woolf, Forster, among others. R. Walker (M,B) 3 sem. hrs. Rm. S-216.

EN7-420 SHAKESPEARE I. A study of the major Shakespearean plays. M. Goldwyn (W,A) 3 sem. hrs. Rm. S-124.

EN8-300 APPROACHES TO THE LITERARY EXPERIENCE. An introduction to practical criticism; a broad spectrum of critical approaches is applied to a selected group of literary examples in order to unlock for the student the immense variety and vitality of literature. J. Roberts, (M,B) 3 sem. hrs. Rm. S-117 A.

EN8-350 THE ROMANTIC FLOWERING IN AMERICAN LITERATURE. American reaction to the Age of Reason; the development of Romantic Idealism in the origins of a fiction and a nature poetry specifically American; since Romantic ideals in America reach the apex of their philosophic expression in Transcendentalism, Emerson and Thoreau will form a major part of this course. K. Gibbs (T,A) 3 sem. hrs. Rm. S-117 A.

EN9-200 THE DRAMA TO 1642. A survey of English drama from its earliest beginnings to the Interregnum; representative medieval morality and miracle plays, and the major comedies and tragedies of the Elizabethan—Jacobean period, including works by Marlowe, Jonson, Dekker, Middleton, Webster, Tourneur, and other contemporaries of Shakespeare. P. Edmunds, (M,A) 3 sem. hrs. Rm. S-117 B.

## FOREIGN LANGUAGES

FL8-200 CONTRASTIVE SYNTAX: THE PSYCHOLOGY OF LEARNING A SECOND LANGUAGE AND DERIVED METHODOLOGIES. Introduction to analysis of errors made by learners of a second language; contrastive analysis of the sound system and gram-

matical structures of English and Spanish; theories and experimentation on the learning process and its applications to teaching of a second language. Prerequisite: Recommended — Psychological Foundations of Education. R. Hartwig (T,B) 3 sem. hrs. Rm. S-309.

FL8-300 COMPARATIVE STUDY OF FRENCH AND SPANISH LITERATURE. Specific parallel between French and Spanish Literature will be drawn, comparing and contrasting their features. Prerequisite: Adequate command of spoken and written Spanish and written French. R. Alcala (W,B) 3 sem. hrs. Rm. S-304.

## FRENCH

FR7-150 INTRODUCTORY CONVERSATIONAL FRENCH (or MODERN FRENCH). A practical approach to French; emphasis on expression and use of the language for communication and travel; use of basic vocabularies, and stress on oral performance to provide meaningful practice. Y. Martel (W,A) 3 sem. hrs. Rm. S-311 A.

FR9-200 ADVANCED CONVERSATION. For teachers of French and other languages who are tired of using nothing but "classroom French" and would like to expand and use their vocabulary — envision a "salon type" atmosphere where current topics (controversial and otherwise) would be discussed; no textbook but reprints of magazine articles for reading and discussion used; completely oral — no writing. J. Celona (T,B) 3 sem. hrs. Rm. S-304.

## GEOGRAPHY

GE8-100 CULTURAL GEOGRAPHY. The location, spatial pattern and spatial interaction of cultural features on earth's surface. R. Hunt (M,A) 3 sem. hrs. Rm. A-304.

GE8-150 WORLD REGIONAL GEOGRAPHY, PART II. Development of a greater understanding and appreciation of the different characteristics of the people of the earth in their national groupings, on the stage of the natural geographic environment and its relation to political, economic, and social problems; emphasis on Europe, the U.S.S.R. and the Middle East. G. Knadler (M,B) 3 sem. hrs. Rm. 316 A.

# GUIDANCE

GU8-100 **PRINCIPLES AND PRACTICES IN GUIDANCE.** Provides the student with an understanding of the need, meaning and scope of guidance services; principles and practices involved in the following guidance areas considered — introduction and philosophy of guidance, understanding the individual and his needs, essential orientation activities for the student, collecting, recording and evaluating data, interviewing and counseling, guidance through group activities, placement and follow-up activities, organization and evaluation of guidance; emphasis on the role of the classroom teacher in the guidance program; this course or its' equivalent is a prerequisite for all advanced courses in guidance. L. Farrey (M,B) 3 sem. hrs. Rm. S-212.

GU8-300 **TECHNIQUES OF COUNSELING.** An introductory level course in the basic fundamentals of counseling; required course for students majoring in Counseling or wish to be certified as Counselors in Massachusetts; in addition to the basic principles of counseling, students are involved in various role playing techniques; where applicable the case study techniques employed. Prerequisite: Principles of Guidance. P. Steinkrauss (TH,B) 3 sem. hrs. Rm. S-216.

GU8-400 **COUNSELING AND GUIDANCE IN THE ELEMENTARY SCHOOL.** Relating the field of Counseling and Guidance to the area of elementary education; acquaintance with goal identification for behavioral growth, various counseling techniques, evaluation process, organization and administration of guidance programs within the elementary school setting. Prerequisite: Principles of Guidance. R. Isabelle (TH,A) 3 sem. hrs. Rm. S-212.

GU8-500 **COUNSELING THE PHYSICALLY HANDICAPPED.** A look at some of the basic disadvantages handicapped people face in our society today; a better understanding of the needs of the handicapped offered by exploring education for the handicapped, specialized housing needs, job availability and how the state assists the handicapped through a multitude of state and federally-sponsored programs. R. Cashman (W, A) 3 sem. hrs. Rm. S-212.

GU8-550 **HUMAN AWARENESS AND CAREER DEVELOPMENT.** For students interested in increasing their self awareness and evaluate their career potential; humanistic techniques used to heighten self awareness so that the student can make fulfilling, intelligent, realistic decisions about career plans and life styles

based on his/her abilities, interests, needs and values. C. Mielo (W,B) 3 sem. hrs. Rm. S-227.

GU9-250 GROUP COUNSELING. A lecture-demonstration course designed to instruct the student in theories, methodology, and content of group counseling; the principles of group counseling, with an analysis of the dynamics of the individual affecting and being affected by the group covered; group counseling considered ranges from information type groups to encounter groups, with an emphasis on the use of groups within an academic setting; emphasis on the necessity for sensitivity in human relationships as the counselor works with groups of teachers and parents in the solution of educational problems. Prerequisite: Techniques of Counseling. Enrollment limited. Consent of Instructor required. R. Gilmartin (T,B) 3 sem. hrs. Rm. S-216.

GU9-350 INDIVIDUAL INTELLIGENCE APPRAISAL-(BINET) The origin and use of the Stanford-Binet Intelligence Tests explored; learning how to administer, score, and interpret the 1960 revision of the Binet; for classroom teachers, special education teachers, school psychologists, and guidance personnel; certificate issued to those who complete the testing requirements under supervision. Prerequisite: An Introductory Course in Measurement. TBA (T,B) 3 sem. hrs. Rm. S-216.

GU9-375 OCCUPATIONAL INFORMATION. Helping administrators, counselors, and teachers to better meet the needs of youth through complete guidance techniques; organized to help develop competencies in the following areas of Occupational Information: classification and description of jobs and industries, occupational trends in relation to socio-economic changes, collecting information, filing information and evaluating information about occupations and training; emphasis on the use of Occupational Information with groups and with individuals in the public school system. Prerequisite: Principles of Guidance. J. Scannell, (TH,B) 3 sem. hrs. Rm. S-126.

GU9-500 PUPIL PERSONNEL SERVICES. Required course for personnel workers in the public schools; introduction to occupational, educational, and personnel career studies for appraisal and evaluation; roles, and responsibilities of various pupil personnel; use and function of school and out-of-school agencies; clinical procedures; a full review of the most important aspects of setting and appraising personnel programs on all levels will be stressed and studied. Prerequisite: Principles of Guidance. S. Potter (M,A) 3 sem. hrs. Rm. S-126.

GU9-800 PRACTICUM IN COUNSELING. Offering advanced graduate students an opportunity to put into practice the various theoretical aspects of academic counseling and guidance which they have learned in previous courses; registration restricted to those concentrating in guidance who have completed 3 guidance courses including Techniques of Counseling; review of the major areas of counseling theory; individual academic counseling while under supervision; assistance given in assessing the practice. F. Taylor (T,A) 3 sem. hrs. S-211 B.

GU9-900 CURRENT ISSUES SEMINAR IN GUIDANCE AND COUNSELING. Conducted by the Counselor Education Staff; for individuals who are directly involved in counseling or guidance in school and non-school settings; topics include: management of counseling organizations — career and avocational trends in the field. of work and leisure — current counseling theory and application including behavior modification, value clarification, and other new contemporary issues in testing and measurement — counseling the hard-to-reach, including the learning disabled, perceptually handicapped, the addict, the asocial, and others — community and consulting resources in the Metropolitan Worcester area — issues in professional growth and development — counseling the emotionally disturbed-identification and treatment, group process in counseling and guidance. Pre-requisite: Consent of Staff. Staff (W,C) 3 sem. hrs. Lancer Room.

## HEALTH EDUCATION

HE8-250 HUMAN SEXUALITY AND SEX EDUCATION. Focus on the need for and implementation of a sexuality education program in the school; techniques and methods for teaching this subject area in the elementary/secondary school emphasized. H. Muson (M,A) 3 sem. hrs. LRC 304.

HE8-275 SCHOOL HEALTH COUNSELING. For teachers who find themselves, from time to time, working with individuals and groups in "non-official" counseling type situations; providing teachers with the skills and knowledge that are necessary in order to apply counseling techniques to their own teaching situation; subjects include: establishing a climate for effective counseling, an overview of counseling approaches, counseling techniques and strategies, typical problems in counseling, application of techniques to techniques, evaluation. H. Munson (M,A) 3 sem. hrs. LRC 304.

HE8-300 DRUGS AND SOCIETY. The effects of drug use, abuse, and misuse; major drugs of the contemporary

drug scene given special attention; the possible reasons for drug use and the role of the law in drug abuse examined; open classroom method of instruction used. C. Radlou (T,A) 3 sem. hrs. LRC 304.

HE8-350 PERSONAL HEALTH. Impact of modern-day life on human health; the potential of heart disease, drugs, nutrition, diet and weight control, smoking, daily stress, and how they contribute to or detract from the individual's optimal level of health. D. Read (W,A) 3 sem. hrs. LRC 304.

HE8-400 MENTAL HEALTH EDUCATION IN THE SCHOOLS. The interpersonal and decision-making skills which contribute to an individual's mental health and how these skills can be taught within the framework of the health education program examined; developing and sharpening their own interpersonal and decision-making skills as well as learn how to teach these skills; the "Inside/Out" Health Education T.V. series and other health education materials used throughout the course to develop teaching skills. J. Corry (W,B) 3 sem. hrs. LRC 112.

HE8-420 DRUGS, ALCOHOL, TOBACCO AND YOU. Exploring the use of chemical agents as they relate to the individual; emphasis on exploring why people use drugs, what drugs do for and to you, the implications of altered states of consciousness in your life and much more. J. Corry (T,B) LRC 116.

## HISTORY

HI8-100 UNITED STATES HISTORY. A survey of United States political, social, economic, diplomatic and cultural movements from the colonial period to the mid-19th century. G. Mitchell (M,A) S-211 B.

HI8-200 CIVIL WAR AND RECONSTRUCTION. A detailed examination of the middle period of American history with particular emphasis on such topics as sectionalism, slavery and modern industrial warfare as well as their impact on the political and racial fabric of America. R. McGraw (T,A) 3 sem. hrs. Rm. S-214.

HI8-250 RUSSIA FROM PETER THE GREAT TO THE COLD WAR. Russia in the modern era spanning the last 225 years; study of Russia's greatest heroes and villains as well as the radical change, stress and turmoil during which Russia becomes the epitome of 20th century totalitarian power and produces some of the greatest creative art in the history of civilization. TBA (W,B) 3 sem. hrs. Rm. S-219 B.

HI8-275 COMPARATIVE REVOLUTION. The causes and dynamics of major revolutionary movements and

ideologies in Western history; extensive discussion of readings. G. Leeds (T,A) 3 sem. hrs. Rm. S-217.

HI8-300 AMERICAN FOREIGN POLICY SINCE THE COLD WAR. The determinates of foreign policy and problems of implementation; consideration of selected foreign policy formulations under recent presidents. E. Shea (TH,A) 3 sem. hrs. Rm. S-225 B.

HI8-350 IMAGE OF WOMEN IN AMERICAN HISTORY. Prevailing views regarding the status of American women from the colonial era to the present examined; class distinctions and geographic factors included; comparisons drawn with the reality of the situation using first-hand accounts, representative fiction and historian's opinions. G. Leeds (W,B) 3 sem. hrs. Rm. S-226.

HI8-400 STUART IRELAND. Problems of Anglo-Irish relations with special emphasis on Cromwellian Settlement and its consequences: C. Yuan (W,A) 3 sem. hrs. Rm. S-214.

HI9-100 EUROPE IN THE 19TH CENTURY. The society of the *Ancien Regime* and the French Revolution, the dictatorship of Napoleon and his reorganization of Europe; the development of liberalism, nationalism, and socialism; the Second French Empire and the unification of Italy and Germany. E. Hedman (M,B) 3 sem. hrs. Rm. S-124.

## MATHEMATICS

MA7-310 CALCULUS III. Conic sections, polar coordinates and vector analysis. Prerequisite: Calculus II. J. Hayes (TH,B) 3 sem. hrs. Rm. S-227.

MA8-380 PROBABILITY. Probability, combinatorial methods, random variables, probability functions, moments, moment generating functions, Central Limit Theorem, sampling. Prerequisite: Calculus IV or equivalent. M. Hill (W,A) 3 sem. hrs. Rm. S-227.

MA9-200 TOPICS IN GEOMETRY. Axiomatic approach to selected topics in Geometry, both Euclidean and non-Euclidean. Prerequisite: Calculus IV or equivalent. R. Redding (M,A) 3 sem. hrs. Rm. S-227.

## MEDIA

ME8-145 PREPARATION OF INEXPENSIVE INSTRUCTIONAL MEDIA. Laboratory practice in creating visual instructional media applying lettering, coloring and mounting techniques; end products include pictures, maps, charts, and graphs for projected and non-projected use. G. Mitchell (W,A) LRC 118.

ME8-150 COMMUNICATION THEORY. Theories of communication; identification of modes and channels; practical experience in designing and disseminating messages. G. Mitchell (T,A) LRC 118.

ME8-160 PRODUCTION AND DIRECTION OF THE T.V. PROGRAMS. Familiarization of all aspects of closed circuit television production including sound, lighting, graphics staging, production, and equipment operation; student will write, direct and operate camera and video-tape recorder in the production of a program. R. Jones (T,C) LRC 160.

ME8-270 INTRODUCTION TO PHOTOGRAPHY. Basic principles, skills, techniques of photography; their application to visual communication. TBA (W,B) LRC 122.

ME8-275 ADVANCED PHOTOGRAPHY. Principles and application of zone system; characteristics of photographic materials; critiques; concentration on theme of student's choice. Prerequisite: Introduction to Photography or consent of Instructor. W. Byers (W,B) LRC 122.

ME/SD 8-350 INTRODUCTION TO THE THEATRE. General overview of the theatrical experience designed for distribution purposes; plays from major periods of dramatic activity provide basis for examining the various arts within the field (acting, directing, playwriting, lighting, costuming, scene design, and theatre architecture) and the role of the audience. D. Seiffer (M,A) LRC 116.

ME/SD 8-370 ADVANCED CREATIVE DRAMATICS. Developing the skills of a creative dramatics workshop leader; the goals and techniques of improvisations in rhythm, movement, sound, speech and storymaking; students expected to design a theoretical agenda for an extended creative dramatic workshop program and to demonstrate their mastery of skills by leading workshop sessions with children. A. M. Shea (T,B) LRC 116.

ME8-400 SEMINAR: LIBRARIAN/MEDIA SPECIALIST – Teacher Cooperation in the Design of Instruction. Relating and integrating media with on-going teaching learning activities; systematic development of a series of learning activities for a chosen curriculum topic; learning activities designed to meet identified learning objectives for individuals in a described group; prerequisites: Eighteen hours of library courses or state certification as a school librarian and six hours of audiovisual media courses. V. Piccolo (TH,A) 3 sem. hrs. LRC 114.

## MUSIC

MU8-250 MUSIC APPRECIATION. Offered to help anyone interested in increasing his knowledge and enjoyment of music; periods include Renaissance, Baroque, Classical, Romantic and Twentieth Century; recordings and listening important. R. Sahagian (T,A) 3 sem. hrs. Rm. S-124.

MU8-300 OPERA: ORIGIN, DEVELOPMENT AND APPRECIATION. The beginnings of opera as a stage presentation up to and including opera seria of the Twentieth Century; emphasis on the masterworks of Italian, French, and German composers; recordings, illustrations and demonstrations will be from personal experiences of the instructor. L. Celona (W,B) 3 sem. hrs. Rm. S-124.

## NATURAL SCIENCE

NS8-101 PHYSICAL SCIENCE I. Survey of the physical sciences, with particular emphasis on physics and chemistry, particularly the evolution of concepts and theories; scientific methods and attitudes considered; topics include physical laws, measurement, laws of motion, gravitation, energy, conservation laws, kinetic molecular theory and wave motion. W. Belanger (W,B) 3 sem. hrs. Rm. S-232.

NS8-105 INTRODUCTION TO ASTRONOMY. Concerned with the tools of the astronomer, the nature of the solar system, star locations, celestrial motions, the nature of stars, and the evolution of the universe. H. Chapman (T,B) 3 sem. hrs. Rm. S-231.

## NURSING

NU7-310 NURSING THROUGH THE LIFE SPAN I: MEDICAL AND SURGICAL NURSING. A course for Registered Nurses in which the concepts of nursing process as applied to medical surgical nursing practice will be the focus. M. Lovering (TH,A) 3 sem. hrs. Rm. G-24.

NU8-200 THE NURSE AND THE LAW. Designed to introduce the Registered Nurse to some of the most important legal problems facing her profession; malpractice, abortions, and employee-employer relationships covered; goal is to demonstrate how the nurse should handle such situations in order to both care for the patient and also comply with the law. G. Najemy (T,A) 3 sem. hrs. Rm. G-24.

NU8-250 FOUNDATIONS OF FAMILY THERAPY. Introduction to the basic theoretical principles underlying the field of family therapy; discussion on dynamic, structural, systems and communication theories of family functioning pointing toward the developing of skills in counseling and intervention with families; some background or interest in counseling with families is required. S. Blum (M,A) Rm. G-24.

NU8-440 LEADERSHIP IN NURSING INTERVENTION. Designed to provide fundamental administrative theory and techniques necessary to the development of a team leadership role in either the institutional or community setting. Prerequisite: NU8-410, Nursing through the Life Span II and/or permission of the Instructor.

## PHILOSOPHY

PH7-100 INTRODUCTION TO PHILOSOPHY. A study of the nature, purpose and problems of philosophy in order to challenge the student to develop his own philosophical perspective. N. Brophy (W,B) 3 sem. hrs. Rm. S-228.

PH7-200 INTRODUCTION TO 20TH CENTURY RELIGIOUS THOUGHT. Exploration of the changes that have come into religious thought in 20th century through various thinkers such as Buttmann, Tillich, Bonhoeffer, Merton, Huxley, Gurdjieff, Baba Ram Das, as well as through certain events such as Vatican II and World Council of Churches, and certain movements such as crisis theology, death of god-movement, and Zen Buddhism; assessment of the present state of religious ideas. G. Garretts (T,B) 3 sem. hrs. Rm. S-126.

PH8-120 PHILOSOPHICAL PSYCHOLOGY. The Philosophical problems relevant to human nature and the human person; problems of mind, body, soul, life, death, immortality, knowledge, intellect, free-will and evolution examined; the empirical and meta-empirical metrodologies; human nature, in its physical and spiritual dimensions, viewed scientifically and philosophically. TBA (W,B) 3 sem. hrs. Rm. S-219A.

PH8-200 ETHICS: MORAL DIMENSIONS OF HUMAN EXISTENCE. A dialectical examination of the questions — Is life worth living? What is good? How do we judge these matters? Are there any standards? Which is more important, conscience or law? How do I resolve the problems of justice, abortion, divorce, lying, war, punishment, love, friendship and happiness? N. Brophy (M,A) 3 sem. hrs. Rm. S-228.

PH8-236 PHILOSOPHY AND THE RISE OF SOCIAL THEORY: An Introduction. Introducing students to the works of Social Philosophers including Hegel, Marx, Comte, and Dewey, who wrote extensively about the relationship between man and society. PH 236 will hopefully, help students develop a philosophical-conceptual basis for understanding modern mass movements and communism. G. Robbins (T,B) 3 sem. hrs. Rm. S-219 A.

PH8-245 INTRODUCTION TO THE PHILOSOPHY OF ART. The fundamental problems concerning art are examined in the light of their connection with the general philosophical questions of value, truth and cognition; basic study of the functions of the human mind, senses and emotions in the creation and appreciation of art object; topics include: The Aesthetic experience and Art as an Expression of Human Intelligence and Emotion, Art and Morality, Art and Society, philosophers, approach and tests will vary with Instructor. D. Schaff (M,B) 3 sem. hrs. Rm. S-211 A.

PH8-250 INTRODUCTION TO PHILOSOPHY OF RELIGION. Examination of what religion should be in its structure and its performance, in theory and ritual; analysis of traditional approaches to existence of God, to immortality, miracles, to natural and supernatural religion, to revelation, to salvation and some contemporary answers to those problems; relationship of mythology and religion also considered. G. Garretts (TH,B) 3 sem. hrs. Rm. S-125.

PH8-291 PHILOSOPHY OF HUMAN POTENTIALITY – An Experiential Approach. Theories and practices from the Human Potentials Movement used to unlock the potentialities for growth and self-being of each participant; the concepts and experiences of centering, encountering, energy-flow, self-actualization, consciousness-deepening, body-awareness and creative-freedom, developed through intrapersonal, interpersonal, and transpersonal situations; focus on the existentiality and spirituality of human experiencing. C. Schlosser (TH,B) 3 sem. hrs. LRC 304.

## PHYSICAL EDUCATION

PE8-100 MOVEMENT EDUCATION. A success oriented, problem solving approach to teaching physical education emphasizing creativity; a Movement Education approach used to teach sports, games, gymnastics, aquatics, and dance. H. Semerjian (T,A) 3 sem. hrs. Gym.

PE8-600 THE ORGANIZATION AND ADMINISTRATION OF ATHLETICS. Designed for those who are involved

in planning and conducting intramural and inter-school sports on the elementary, junior high and senior high school levels; factors of time, space, equipment, facilities, budget, scheduling and public relations discussed and evaluated. J. Mockler (W,A) 3 sem. hrs. Rm. G-24.

## PSYCHOLOGY

PS7-110 GENERAL PSYCHOLOGY.I. Psychology as a behavorial science; emphasis on history, scientific method, brain, nervous system, maturation, development, learning, motivation, and perception. J. Lonergan (M,A) 3 sem. hrs. Rm. S-132.

PS7-115 GENERAL PSYCHOLOGY II. Continuation of PS-7 110; orientation to psychology as introduced in General Psychology I; emphasis upon emotion, behavior disorders and topics in the social milieu. G. Matheson (W,A) 3 sem. hrs. Rm. S-205.

PS7-120 PSYCHOLOGICAL STATISTICS. Statistical principles and techniques as applied to psychological data; the selection of procedures appropriate to the problems, interpretation of outcomes, data tabulation and reduction, measurement of central tendency and variability, correlation and prediction, association and analysis of variance. Prerequisite: General Psychology I and II. J. Allard (W,B) 3 sem. hrs. Rm. 103 A.

PS8-750 THEORIES OF PERSONALITY. Survey of the major theories of personality; understanding the person and why he behaves as he does explored through different theoretical frameworks with consideration given to the author's background, dynamics of personality, development of personality, methods of research and evaluation. R. O'Connor (T,B) 3 sem. hrs. Rm. S-225. A.

PS8-775 ABNORMAL PSYCHOLOGY. The etiology, dynamics and treatment of psychopathology and its relationship to normal personality; contemporary approaches as well as traditional categories of psychopathology. Prerequisite: General Psychology I and II. J. Nash (T,B) 3 sem. hrs. Rm. S-205.

PS8-800 ENCOUNTER: THEORY AND PRACTICE. Basic investigation through literature and practice of the Group Encounter experience; major emphasis on the participation in self-awareness and encountering experiences and the analysis of such experiences as an educational process. B. Guarini (M,B) 3 sem. hrs. Rm. S-219 A.

# SOCIOLOGY

SO7-100 INTRODUCTION TO SOCIOLOGY. The formal study of the nature of group behavior and social interaction through the analysis of the structure and values of human groups. F. Brooker (M,B) 3 sem. hrs. Rm. S-125.

SO8-100 POLITICAL SOCIOLOGY. The social foundations of political phenomena, and concern with social movements, the relationship of social conditions and emergence of politicial institutions, the social structural bases of politics and politics of social change in history. Prerequisite: Introductory Sociology and one other Sociology course. M. Zelman (M,A) 3 sem. hrs. Rm. S-311 A.

SO8-200 SOCIOLOGY OF EDUCATION. Study of Education, emphasizing the social process as well as the institutional structure; social role of teachers, administrators, pupils, the group basis of education, and community influence. Prerequisite: Introductory Sociology. F. Pizziferri (T,A) 3 sem. hrs. Rm. S-311 A.

SO8-250 FORMAL ORGANIZATIONS. Discussion of the various sociological theories in formal and complex organizations and the structure function and communication within organizations; students are to conduct a case study of a formal or complex organization. Prerequisite: Introductory Sociology. T. Johnson (T,B) 3 sem. hrs. Rm. S-212.

SO8-300 MEDICAL SOCIOLOGY. Concentration on two related areas within the field — one area is the social organization of hospitals, the patterns of interaction within which doctors, nurses, patients and staff function, the attitudes held by the medical staff toward terminal patients and death in the hospital setting; the second area deals with mental hospitals and the social-psychological processes of becoming a patient, the processing of the patient within the hospital, and the career of the patient; discussions in both areas emphasizes interpersonal relations between doctors, nurses, hospital staff, patients, and patients' families within the hospital setting and outside it. Prerequisite: Introduction to Sociology. B. Khleif (W,B) 3 sem. hrs. Rm. S-225 A.

SO8-350 SOCIOLOGY OF RELIGION. Designed as a comparative study of religious institutions and systems of belief with emphasis on the mystical and natural components of the religious phenomena. Prerequisite: Introductory Sociology and one other course in Sociology. G. Turberville (T,A) 3 sem. hrs. Rm. 219 A.

SO8-375 CRIMINOLOGY. Orientation to the study of crime within a theoretical perspective including formulation and application of definitions of crime and criminality; the development of criminal behavior, and the construction of concepts of criminality; the ideas of justice and individual freedom as they are found in the contemporary literature of the sociology of crime as well as the mechanisms of investigation, apprehension, judgement, incarceration, parole, pardon, probation, etc. Prerequisite: Introductory Sociology. R. Goss (TH,B) 3 sem. hrs. Rm. S-228.

## SPANISH

SP7-150 FUNDAMENTAL SPANISH II. Continuation of Fundamental Spanish I; lesson is introduced by everyday speech patterns, making use of situation-oriented film strips and cassettes with native speakers; students encouraged to communicate in Spanish on familiar material; attention given to sounds that are different than English through practice dictations and sound analysis; workbook lessons based on the reading and writing of structural material from the cassettes; one or two paperback readers, with exercises, used. F. O'Connor (W,B) Rm. S-312 , 3 sem. hrs.

SP8-200 SPANISH PRACTICUM IV. A fourth semester continuation of Spanish Practicum I offered to those persons wishing to establish better communication and understanding with Spanish-speaking people; students who need to make up Intermediate Spanish credits and who find it impossible to do so during the regular scholastic year would also find this course useful; focus on the four skills of speaking, listening, reading and writing; through more advanced readings (newspapers. magazines, etc.) a cultural appreciation of Spain and Hispanic America is presented; oral fluency reinforced by regular class participation and the laboratory. K. Shea (T,A) 3 sem. hrs. Rm. S-304.

SP8-300 ADVANCED ESL METHODS AND MATERIALS, Second language acquisition and applied teaching methodology in teaching English to speakers of other languages. Prerequisite: Recommended – Contrastive Syntax: The Psychology of Learning a Second Language and Derived Methodologies. J. Corcoran (M,A) 3 sem. hrs. Rm. S-304.

SP8-320 SPANISH AMERICAN ESSAYISTS. Study of representative essayists of the nineteenth and twentieth centuries. Prerequisite: Adequate command of spoken and written Spanish. K. Shea (TH,A) 3 sem. hrs. Rm. S-304.

## SPEECH AND DRAMA

ME/SD 8-350 **INTRODUCTION TO THE THEATRE.** General overview of the theatrical experience designed for distribution purposes; plays from major periods of dramatic activity provide basis for examining the various arts within the field (acting, directing, playwriting, lighting, costuming, scene design, and theatre architecture) and the role of the audience. D. Seiffer (M,A) 3 sem. hrs. LRC 116.

ME/SD 8-370 **ADVANCED CREATIVE DRAMATICS.** Developing the skills of a creative dramatics workshop leader; goals and techniques of improvisations in rhythm movement, sound, speech and storymaking; students expected to design a theoretical agenda for an extended creative dramatics workshop program and to demonstrate their mastery of skills by leading workshop sessions with children. A.M. Shea (T,B) 3 sem. hrs. LRC 112.

## URBAN STUDIES

UR8-100 **INTRODUCTION TO URBAN STUDIES.** A broad overview of urban life using social science theory as a basis for understanding patterns of urban growth, the process of urbanization, the phenomenon of urbanism and the distribution of urban resources. V. Powers (TH,B) 3 sem. hrs. S-225 B.

UR8-200 **THE STRUCTURE AND FUNCTION OF URBAN ORGANIZATIONS.** Insights and theories deriving from various social science fields as they concern the individuals involvement in various organizational patterns; particular attention given to patterns of work organizations. H. Langlois (T,B) 3 sem. hrs. S-225 B.

# Notes

REGISTRATION
BY
MAIL

# WORCESTER STATE COLLEGE

*USE INK – PRINT ALL ENTRIES IN CAPITAL LETTERS*

MAIL TO:
Graduate Education & Special Program
Worcester State College
486 Chandler Street
Worcester, MA 01602

NAME..... Male ..... or Female .....
(last) (first) (middle)

RESIDENTIAL

Address .....
(street) (town) (state) (zip code)

Telephone..... .....
(home) (business) (Social Security Number)

IS THIS YOUR FIRST CONTINUING STUDIES COURSE AT WORCESTER STATE COLLEGE? Yes ( ) No ( )

COURSES FOR WHICH YOU ARE REGISTERING

| course number | course title | Credit status * | semester hours |
|---|---|---|---|
| ..... | ..... | ..... | ..... |
| ..... | ..... | ..... | ..... |
| ..... | ..... | ..... | ..... |

* GRD – GRADUATE UG – UNDER GRADUATE AUD – AUDIT PG – POST GRADUATE

STUDENT'S SIGNATURE .....
*(Please write your name)*

OFFICE USE ONLY

Total Amt. Pd. .....

Bank or M.O. No .....

Reg. Fee .....

Late Fee .....

Change Fee .....

Lab Fee .....

TOTAL.....

REFUND .....

NET .....

*This Catalog was designed and edited by the WSC Office of Information Services.*
*Composition: Jeanne E. Guillette* *Layout: Catherine Cyr*
*Printing: WSC Copy Center*

[#2]

Division of Graduate Education
& Special Programs
Worcester State College
Worcester, MA 01602

Non Profit Org.
U.S. Postage
PAID
Worcester, Mass.
Permit No. 279